POLICE HEADQUARTERS BUILDING

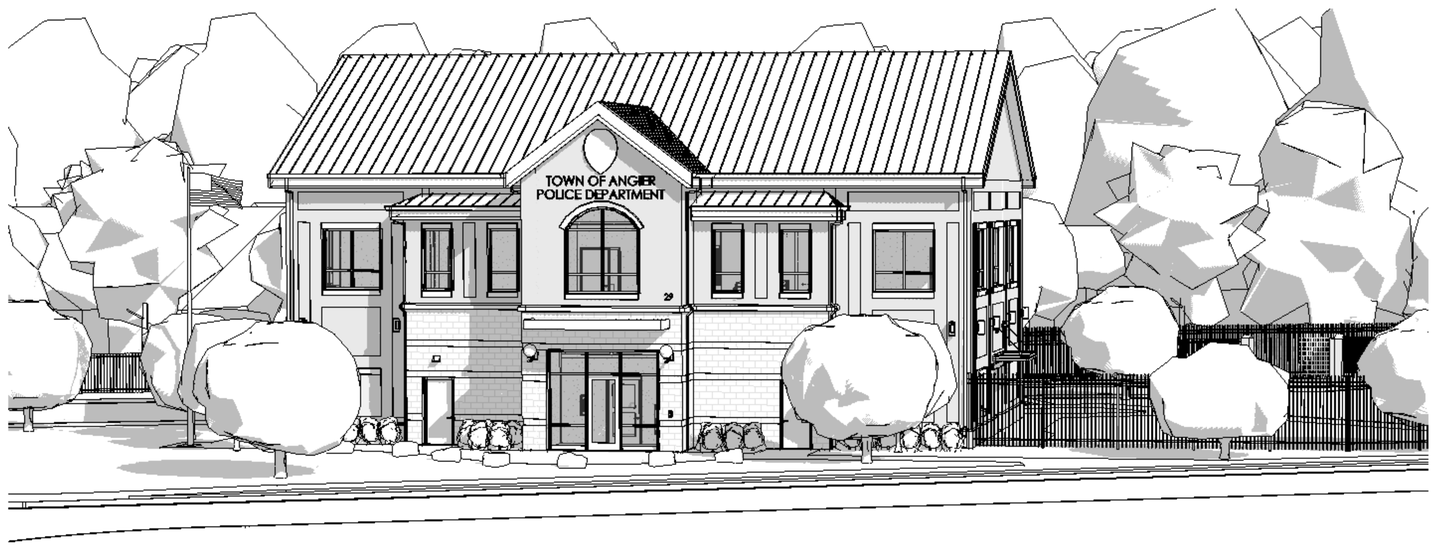
29 W. MCIVER STREET
ANGIER, NC 27501

VICINITY MAP



TRUE NORTH

IMAGE REPRINTED FROM GOOGLE MAPS
N.T.S.



DESIGN TEAM

OWNER

TOWN OF ANGIER
55 N BROAD STREET
ANGIER, NC 27501
CONTACT: JIMMY COOK
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GENERAL CONTRACTOR

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CIVIL/LANDSCAPE

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ARCHITECT

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PME/FA/FP ENGINEER

ALTLANTEC ENGINEERS, PA now IMEG
RALEIGH, NC
CONTACT: BRADLEY FELTS, PE
NUMBER: 919-855-2040
EMAIL: BRAD.W.FELTS@IMEGCORP.COM

ALTERNATES

ALTERNATE #1

PROVIDE NEW NATURAL GAS GENERATOR AND TRANSFER SWITCH IN LIEU OF USING OWNER'S EXISTING GENERATOR AND TRANSFER SWITCH. REFER TO ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.

DRAWING INDEX

GENERAL

G001	COVER SHEET
G002	CODE SUMMARY
G003	LIFE SAFETY PLANS
G004	UL DETAILS

CIVIL

C000	COVER SHEET
C001	OVERALL PLAN
C101	EXISTING CONDITIONS AND DEMO PLAN
C201	STAKING PLAN
C202	PAVEMENT MARKING PLAN AND SIGNAGE PLAN
C301	GRADING PLAN
C401	EROSION CONTROL PLAN - INITIAL INSTALLATION
C402	EROSION CONTROL PLAN
C501	UTILITY PLAN
C601	LANDSCAPE PLAN
C701	EROSION CONTROL DETAILS
C702	EROSION CONTROL DETAILS
C801	SITE DETAILS
C802	SITE DETAILS
C803	SITE DETAILS
C901	STORM DETAILS
C902	SANITARY SEWER DETAILS
C903	WATER DETAILS

SITE LIGHTING

25-0150A	STREET LIGHTING ARRANGEMENT (GRID OFF)
25-0150B	STREET LIGHTING ARRANGEMENT (PHOTMETRIC CALCS)

ARCHITECTURE

A001	ABBREVIATIONS, LEGENDS & MOUNTING HEIGHTS
A002	FF&E AND MATERIAL LEGEND
A003	PARTITION WALL TYPES
A100	FLOOR PLANS
A110	REFLECTED CEILING PLANS
A120	ROOF PLAN
A200	BUILDING ELEVATIONS
A201	ENLARGED BUILDING ELEVATIONS
A202	MOCKUP WALL & TRASH ENCLOSURE DETAILS
A300	BUILDING SECTIONS
A310	WALL SECTIONS
A320	SECTION DETAILS
A330	PLAN DETAILS
A340	CEILING DETAILS
A350	ROOF DETAILS
A351	ROOF DETAILS
A400	ENLARGED STAIR AND ELEVATOR PLANS
A401	STAIR & ELEVATOR SECTIONS
A402	STAIR DETAILS
A420	ENLARGED PLANS
A421	INTERIOR ELEVATIONS
A422	INTERIOR ELEVATIONS
A500	TYPICAL DETAILS
A600	CASEWORK & MILLWORK DETAILS
A601	CASEWORK & MILLWORK DETAILS
A700	DOOR SCHEDULE AND NOTES
A701	DOOR DETAILS
A702	STOREFRONT SCHEDULE AND NOTES
A703	STOREFRONT DETAILS
A704	STOREFRONT DETAILS
A705	SF DETAILS & PRECAST/BRICK DETAILS
A800	SIGNAGE PLANS
A801	INTERIOR SIGNAGE ELEVATIONS
A802	EXTERIOR SIGNAGE DETAILS
A900	PERSPECTIVES

INTERIORS

I100	FINISH PLANS & DETAILS
I101	TILE SYSTEMS AND DETAILS

STRUCTURAL

S001	GENERAL NOTES
S002	GENERAL NOTES
S003	GENERAL NOTES
S004	PLAN LEGEND AND ABBREVIATIONS
S011	SPECIAL INSPECTIONS
S012	SPECIAL INSPECTIONS
S021	WIND LOADING DIAGRAM
S111	FOUNDATION AND FIRST FLOOR SLAB PLAN
S121	SECOND FLOOR FRAMING AND SLAB PLAN
S131	LOW ROOF FRAMING AND DECK PLAN
S141	ROOF FRAMING AND DECK PLAN
S301	SECTIONS - FOUNDATIONS
S311	SECTIONS - SECOND FLOOR
S321	SECTIONS - ROOF
S401	MASONRY WALL REINFORCING PLAN
S501	TYPICAL FOUNDATION AND ELEVATOR DETAILS
S502	TYPICAL BASE PLATE AND SITE WALL DETAILS
S503	TYPICAL SLAB-ON-GRADE DETAILS
S504	TYPICAL SLAB-ON-GRADE DETAILS
S505	TYPICAL COMPOSITE SLAB DETAILS
S506	TYPICAL COMPOSITE SLAB DETAILS
S507	TYPICAL MASONRY DETAILS
S508	TYPICAL MASONRY DETAILS
S509	TYPICAL MASONRY DETAILS
S510	TYPICAL STEEL FRAMING AND STEEL DECK DETAILS
S511	TYPICAL CFMF TRUSS DETAILS

FIRE PROTECTION

FP000	FIRE PROTECTION LEGEND, NOTES, & DETAILS
FP100	FIRE PROTECTION PLANS
FP200	FIRE PROTECTION SITE PLAN

PLUMBING

P000	PLUMBING LEGENDS, NOTES, & DETAILS
P001	PLUMBING FIXTURE SCHEDULE
P100	PLUMBING PLANS
P101	PLUMBING GAS PLAN AND DETAILS CONTINUED
P200	PLUMBING WASTE RISER

MECHANICAL

M000	MECHANICAL NOTES, LEGENDS, & SCHEDULES
M100	MECHANICAL PLANS
M101	MECHANICAL SECTIONS
M200	MECHANICAL DETAILS
M201	MECHANICAL DETAILS
M300	VRF PIPING AND WIRING SCHEMATICS

ELECTRICAL

E000	ELECTRICAL LEGEND, NOTES
E100	LIGHTING PLAN ELECTRICAL SITE PLAN
E101	POWER PLAN
E102	ENLARGED POWER PLAN ELEVATOR DETAIL
E200	POWER RISER DIAGRAM, PANEL SCHEDULES
E201	FIXTURE SCHEDULE, 2-WAY COMMUNICATION RISER
E202	DETAILS

FIRE ALARM

FA000	FIRE ALARM LEGEND RISER AND NOTES
FA100	FIRE ALARM PLAN BDA SYSTEM DIAGRAM

PERMIT DRAWINGS

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BOBBITT

PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier
29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

DAVIS KANE ARCHITECTS, P.A. 50304 NORTH CAROLINA RALEIGH, N.C.

JIMMY ARDEL EDWARDS 13823 05.02.25 NORTH CAROLINA RALEIGH, N.C.

DKA JOB NUMBER
2418

REVISIONS

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PA: JIMMY ARDEL EDWARDS
PM: BJM
Drawn By: BJM
Plot Date: 5/2/2025 4:06:10 PM

DATE ISSUED

PERMIT DRAWINGS
05/02/25

SHEET TITLE
COVER SHEET

G001

APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)

NAME OF PROJECT: Town of Angier Police Headquarters Building
ADDRESS: 29 W. McIver Street **ZIP CODE:** 27501
OWNER/AUTHORIZED AGENT: Derek McLean **PHONE #:** (919) 331-6701
E-MAIL: dwmclean@angier.org
OWNED BY: ☒ TOWN ☐ PRIVATE ☐ STATE
CODE ENFORCEMENT JURISDICTION: ☒ TOWN ☐ COUNTY ☐ STATE
NAME OF JURISDICTION: Town of Angier

CONTACT: JIMMY EDWARDS, ARCHITECT

DESIGNER	FIRM	NAME	LIC. #	PHONE #	EMAIL
ARCHITECTURAL	Davis Kane Architects	Jimmy Edwards	13823	(919) 833-3737	jedwards@daviskane.com
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LANDSCAPE	CLH Design	Keith Downing	1047	(919) 319-6716	kdowning@clhdesignpa.com
ELECTRICAL	Atlantec Engineers now IMEG	Sujin Pramojaney	027479	(919) 855-2031	sujin.pramojaney@imegcorp.com
FIRE ALARM	Atlantec Engineers now IMEG	Sujin Pramojaney	027479	(919) 855-2031	sujin.pramojaney@imegcorp.com
PLUMBING	Atlantec Engineers now IMEG	James Delpapa	022035	(919 855-2040	james.b.delpapa@imegcorp.com
MECHANICAL	Atlantec Engineers now IMEG	Patrick McCabe	051195	(919 855-2040	patrick.mccabe@imegcorp.com
SPRINKLER / STANDPIPE	Atlantec Engineers now IMEG	James Delpapa	025036	(919 855-2040	james.b.delpapa@imegcorp.com
STRUCTURAL	Lynch Mykins	Scott Francis	044996	(757) 293-8549	sfrancis@lynchmykins.com
RETAINING WALLS >5' HIGH	-	-	-	-	-
OTHER	-	-	-	-	-
OTHER	-	-	-	-	-

2018 NC BUILDING CODE: ☒ NEW BUILDING ☐ SHELL / CORE ☐ 1ST TIME INTERIOR COMPLETION ☐ ADDITION ☐ PHASED CONSTRUCTION - SHELL/CORE ☐ RENOVATION

2018 NC EXISTING BUILDING CODE: (CHECK ALL THAT APPLY) ☐ PRESCRIPTIVE ☐ ALTERATION LEVEL I ☐ HISTORIC PROPERTY ☐ REPAIR ☐ ALTERATION LEVEL II ☐ CHANGE OF USE ☐ CHAPTER 14 ☐ ALTERATION LEVEL III

CONSTRUCTED (DATE): - **CURRENT OCCUPANCY(S) (CH. 3):** -
RENOVATED (DATE): - **PROPOSED OCCUPANCY(S) (CH. 3):** -
OCCUPANCY CATEGORY (TABLE 1604.5): **CURRENT:** - **PROPOSED:** Business (B)
RISK CATEGORY (table 1604.5) **Current:** ☐ I ☐ II ☐ III ☒ IV **Proposed:** ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA:

CONSTRUCTION TYPE: (CHECK ALL THAT APPLY) ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ☒ II-B ☐ III-B ☐ V-B
SPRINKLERS: ☐ NO ☐ PARTIAL ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
STANDPIPES: ☒ NO ☐ CLASS - I ☐ CLASS - II ☐ CLASS - III ☐ WET ☐ DRY
PRIMARY FIRE DISTRICT: ☒ NO ☐ YES
FLOOD HAZARD AREA: ☒ NO ☐ YES
SPECIAL INSPECTIONS REQ'D: ☐ NO ☐ YES
GROSS BUILDING AREA:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
4TH FLOOR	-	-	-
3RD FLOOR	-	-	-
2ND FLOOR	-	3,725	3,725
1ST FLOOR	-	3,725	3,725
TOTAL:	-	7,450	7,450

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S):
ASSEMBLY: ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
BUSINESS: ☒
EDUCATIONAL: ☐
FACTORY: ☐ F-1 MODERATE ☐ F-2 LOW
HAZARDOUS: ☐ H-1 DETONATE ☐ H-2 DEFLAGATE ☐ H-3 COMBUST ☐ H-4 HEALTH ☐ H-5 HPM
INSTITUTIONAL: ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-1 CONDITION ☐ 1 ☐ 2
I-2 CONDITION ☐ 1 ☐ 2
I-3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
MERCANTILE: ☐
RESIDENTIAL: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
STORAGE: ☐ S-1 MODERATE ☐ S-2 LOW ☐ HIGH-PILED ☐ ENCLOSED ☐ OPEN ☐ PARKING GARAGE ☐ REPAIR GARAGE
UTILITY AND MISC: ☐
ACCESSORY OCCUPANCY CLASSIFICATION(S): STORAGE (S-2)
INCIDENTAL USES (TABLE 509): - THIS SEPARATION IS NOT EXEMPT AS A NON-SEPARATED USE (SEE EXCEPTIONS).
SPECIAL USES (CHAPTER 4 - LIST CODE SECTIONS): -
SPECIAL PROVISIONS (CHAPTER 5 - LIST CODE SECTIONS): -
MIXED OCCUPANCY: YES **SEPARATION:** NO **EXCEPTION:** -

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$$

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2]
1	OFFICE / B	3,725	69,000	N/A	69,000
2	OFFICE / B	3,725	69,000	N/A	69,000

[1] - Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. Minimum Width of Public Way = _____ (W)
e. Percentage of frontage increase If = 100[F/P – 0.25] x W/30 = _____ (%)
[2] - Unlimited area applicable under conditions of Section 507.
[3] - Maximum Building Area = total number of stories in the building x D (506.2)
[4] - The maximum area of open parking garages must comply with 406.5.4. The maximum area of traffic control towers must comply with Table 412.3.1.
[5] - Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	75'-0"	37'-4"	-
BUILDING HEIGHT IN STORIES	4	2	-

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPAR DISTANCE (FEET)	RATING REQ.	RATING PROVIDED (w/ ___ *Reduction)	DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS, TRUSSES)	-	-	-	-	-	-	-
BEARING WALLS							
EXTERIOR NORTH	>30'	0	0 HR	-	-	-	-
EXTERIOR EAST	>30'	0	0 HR	-	-	-	-
EXTERIOR WEST	>30'	0	0 HR	-	-	-	-
EXTERIOR SOUTH	>30'	0	0 HR	-	-	-	-
INTERIOR	-	0	0 HR	-	-	-	-
NONBEARING WALLS AND PARTITIONS							
EXTERIOR NORTH	>30'	0	0 HR	-	-	-	-
EXTERIOR EAST	>30'	0	0 HR	-	-	-	-
EXTERIOR WEST	>30'	0	0 HR	-	-	-	-
EXTERIOR SOUTH	>30'	0	0 HR	-	-	-	-
INTERIOR WALLS AND PARTITIONS	-	0	0 HR	-	-	-	-
FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)		-	0 HR	-	-	-	-
FLOOR CEILING ASSEMBLY		1	1 HR	G004	D601	-	-
COLUMNS SUPPORTING FLOORS		-	0 HR	-	-	-	-
ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)		-	0 HR	-	-	-	-
ROOF CEILING ASSEMBLY		-	0 HR	-	-	-	-
COLUMNS SUPPORTING ROOF		-	0 HR	-	-	-	-
SHAFT ENCLOSURES - EXIT		0	0 HR	-	-	-	-
SHAFT ENCLOSURES - OTHER		-	-	-	-	-	-
CORRIDOR SEPARATION		0	0 HR	-	-	-	-
OCCUPANCY / FIRE BARRIER SEPARATION		-	-	-	-	-	-
PARTY / FIRE WALL SEPARATION		-	-	-	-	-	-
SMOKE BARRIER SEPARATION		-	-	-	-	-	-
SMOKE PARTITION		-	-	-	-	-	-
TENANT / DWELLING UNIT / SLEEPING UNIT SEPARATION		-	-	-	-	-	-
INCIDENTAL USE SEPARATION (STAIR & ELEVATOR)		1	1 HR	G004	U905	W-J-5028	HW-D-0001

[1]Indicate section number permitting reduction

PERCENT OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
> 30' ALL SIDES	UP, S	NO LIMIT	-
-	-	-	-
-	-	-	-

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: ☐ NO ☒ YES
EXIT SIGNS: ☐ NO ☒ YES
FIRE ALARM: ☐ NO ☒ YES
SMOKE DETECTION SYSTEMS: ☐ NO ☒ YES
CARBON MONOXIDE DETECTION: ☒ NO ☐ YES

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET: G003 - LIFE SAFETY PLANS

☒ FIRE AND / OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
☐ ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON THE SITE PLAN)
☒ EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
☒ OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
☒ OCCUPANT LOADS FOR EACH AREA
☒ EXIT ACCESS TRAVEL DISTANCES (1017)
☒ COMMON PATH OF TRAVEL DISTANCES (1016.2.1 & 1006.3.2(1))
☒ DEAD END LENGTHS (1020.4)
☒ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
☒ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMODATE BASED ON EGRESS WIDTH (1005.3)
☒ ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
☐ A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR / CEILING AND / OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
☒ LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10)
☐ LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1010.1.9.7)
☐ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9)
☐ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES
☐ LOCATION OF EMERGENCY ESCAPE WINDOWS (1030)
☒ THE SQUARE FOOTAGE OF EACH FIRE AREA (202)
☐ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2 (407.4)
☐ NOTE ANY CODE EXCEPTION OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE.

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
-	-	-	NOT APPLICABLE		-	-	-

ACCESSIBLE PARKING (SECTION 1106)

LOT OR AREA PARKING	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	TOTAL # OF PARKING SPACES: REGULAR WITH 5' ACCESSIBLE ISLE	TOTAL # OF PARKING SPACES: VAN SPACE WITH 132" ACCESSIBLE AISLE	TOTAL # OF PARKING SPACES: VAN SPACE WITH 8' ACCESSIBLE AISLE	TOTAL ACCESSIBLE PROVIDED
-	-	-	-	-	-	-
-	-	-	SEE CIVIL DRAWINGS		-	-
TOTAL	-	-	-	-	-	-

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS / TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXISTING	-	-		-		-		-	-	
	NEW	1	1	4	-	1	1	4	2	1	1
	REQUIRED	2*	2*	0	-	2*	2*	0	0	1	1

*PER 2018 NCBC 2902.1.1, EXCEPTION 1, THE TOTAL OCCUPANT LOAD SHALL NOT BE REQUIRED TO BE DIVIDED IN HALF WHERE APPROVED STATISTICAL DATA INDICATES A DISTRIBUTION OF SEXES OTHER THAN 50 PERCENT OF EACH SEX.

SPECIAL APPROVALS

SPECIAL APPROVAL REQUIRED: ☐ NO ☐ YES
☒ LOCAL JURISDICTION ☐ OSC ☐ DHHS
☐ DEPARTMENT OF INSURANCE ☐ DPI ☒ OTHER: SPECIAL INSPECTIONS
DESCRIPTION: Town of Angier

ENERGY SUMMARY

ENERGY REQUIREMENTS:
THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: -
EXEMPT BUILDING (PROVIDE CODE OR STATUTORY REFERENCE): -
CLIMATE ZONE: ☐ 3A ☒ 4A ☐ 5A
METHOD OF COMPLIANCE: Energy Code: ☒ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance
(IF "OTHER", SPECIFY SOURCE HERE) -
THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)
ROOF / CEILING ASSEMBLY (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: Standing seam metal roof, high temperature underlayment, 3/4" FRT sheathing, R-30 board insulation, 1/2" substrate, metal roof deck, cold formed metal trusses
U-VALUE OF TOTAL ASSEMBLY: 0.033
R-VALUE OF INSULATION: R-30 CONTINUOUS
SKYLIGHTS IN EACH ASSEMBLY: N/A
U-VALUE OF SKYLIGHT: N/A
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: N/A
EXTERIOR WALLS (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: Brick veneer, air space, rigid insulation, air barrier on load bearing CMU
U-VALUE OF TOTAL ASSEMBLY: -
R-VALUE OF INSULATION: R-9.5 CI
OPENINGS (WINDOWS OR DOORS WITH GLAZING)
U-VALUE OF ASSEMBLY: 0.45 MAX
SOLAR HEAT GAIN COEFFICIENT: 0.25 MAX
PROJECTION FACTOR: LESS THAN 0.25
DOOR R-VALUES: 0.77 MAX (ENTRANCE); 0.45 MAX (NON-ENTRANCE)
WALLS - BELOW GRADE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: -
R-VALUE OF INSULATION: -
FLOORS - OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: -
R-VALUE OF INSULATION: -
FLOORS - SLAB ON GRADE
DESCRIPTION OF ASSEMBLY: 4" Concrete Slab on Vapor Retarder on Grade
U-VALUE OF TOTAL ASSEMBLY: 0.066
R-VALUE OF INSULATION: R-15
HORIZONTAL / VERTICAL REQUIREMENT: TO TOP OF FOOTING
SLAB HEATED: NO

STRUCTURAL DESIGN SUMMARY

REFER TO STRUCTURAL DRAWINGS

MECHANICAL DESIGN SUMMARY

REFER TO MECHANICAL DRAWINGS

ELECTRICAL DESIGN SUMMARY

REFER TO ELECTRICAL DRAWINGS

DAVIS KANE ARCHITECTS, PA
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BOBBITT

PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier
29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

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2418

REVISIONS

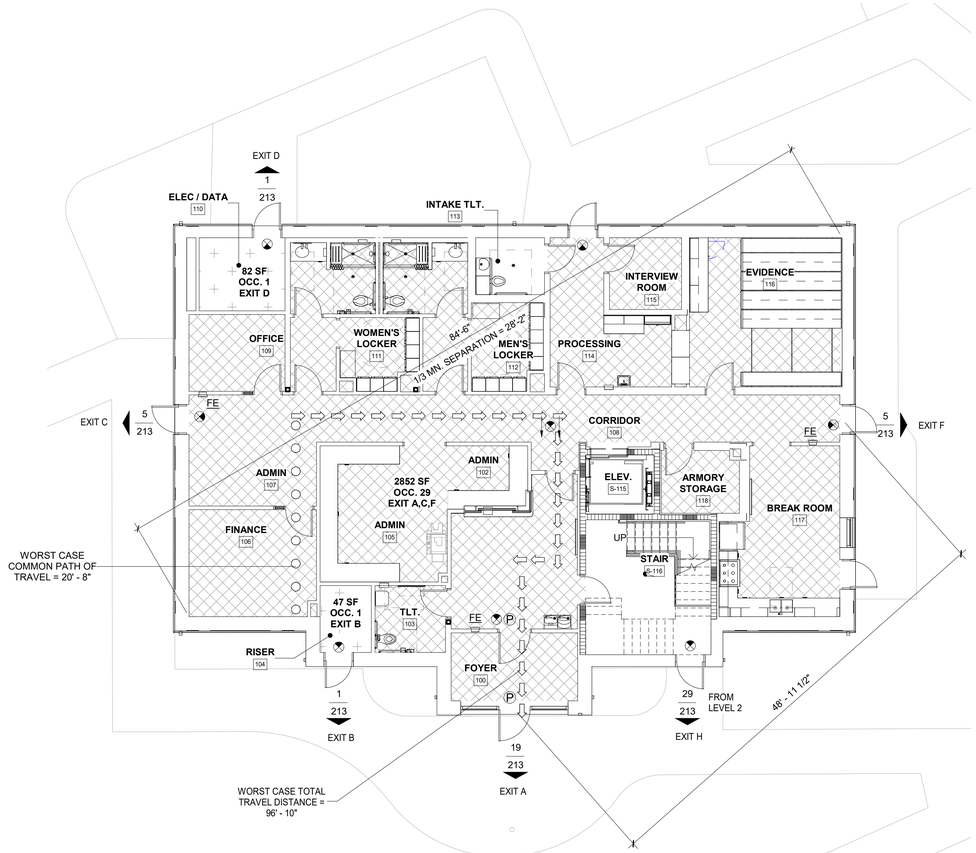
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PA: JIMMY ARDEL EDWARDS
PM: BJM
Drawn By: BJM
Plot Date: 5/2/2025 4:06:13 PM

DATE ISSUED
PERMIT DRAWINGS
05/02/25

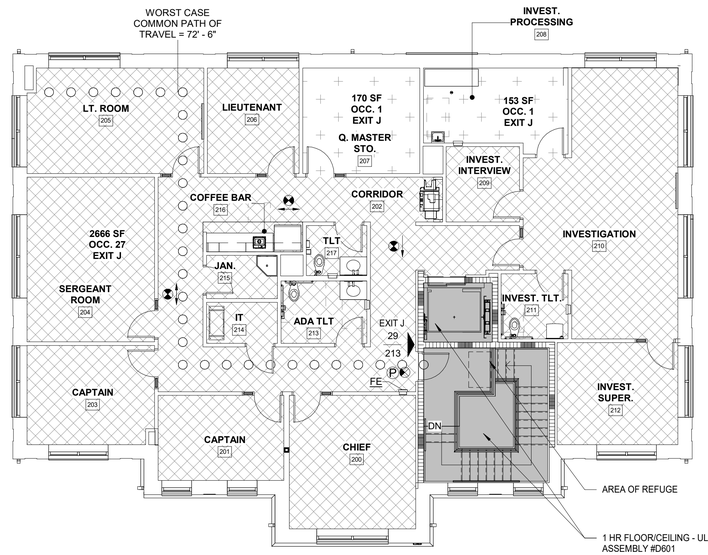
SHEET TITLE
CODE SUMMARY

G002



E1 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

0' 4' 8' 16'



E4 SECOND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

0' 4' 8' 16'

RATED ASSEMBLIES LEGEND

1-HR RATED FIRE BARRIER

HORIZONTAL RATED ASSEMBLIES LEGEND

1-HR RATED FLOOR/CEILING ASSEMBLY

LIFE SAFETY OCCUPANCY LEGEND

ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM (300 SF/OCC. GROSS)

BUSINESS AREAS (100 SF/OCC. GROSS)

LIFE SAFETY GENERAL NOTES

1. REFER TO DOOR SCHEDULE FOR REQUIRED DOOR RATINGS.
2. REFER TO INTERIOR PARTITION TYPES AND FLOOR PLAN FOR ADDITIONAL PARTITION REQUIREMENTS INCLUDE WALL HEIGHT, UL DESIGNS, AND FIRE RATINGS.
3. REFER TO SITE PLAN FOR BUILDING ADJACENCIES & PROPERTY LINES

LIFE SAFETY SYMBOL LEGEND

- DENOTES EXIT DIRECTION ARROW, TYP.
- EXIT X: 0 — INDICATES EXIT POPULATION; 0 — INDICATES EXIT CAPACITY (POPULATION)
- DENOTES EXIT ACCESS
- A ⟷ B — LOCATION WHERE TRAVEL DISTANCE TO 2 EXITS IS EQUIDISTANT
- WORST-CASE TRAVEL DISTANCE
- WORST CASE COMMON PATH OF TRAVEL
- DEAD END CORRIDOR — DEAD END DISTANCE
- F — INDICATES PULL STATION
- FE — INDICATES SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH FIRE EXTINGUISHER
- H — INDICATES HOLD OPEN
- P — INDICATES PANIC HARDWARE
- Room Name / 101 — ROOM NAME / ROOM NUMBER
- 150 SF / OCC. 20 / EXIT A — AREA / OCCUPANT CAPACITY / EXIT
- EXIT LIGHT FIXTURE
- EXIT DIRECTIONAL ARROW

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BOBBITT

PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

DAVIS KANE ARCHITECTS, P.A. — REGISTERED ARCHITECTURAL CORPORATION — 50304 — NORTH CAROLINA — RALEIGH, N.C.

JIMMY ARDEL EDWARDS — REGISTERED ARCHITECT — 13823 — 05.02.25 — NORTH CAROLINA — RALEIGH, N.C.

DKA JOB NUMBER
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SHEET TITLE
LIFE SAFETY PLANS

G003

System No. HW-D-0001

August 04, 2014

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1, 2, 3 and 4 Hr (See Items 3 and 4)	F Ratings — 1, 2, 3 and 4 Hr (See Items 3 and 4)
Nominal Joint Widths —1, 1-1/2 and 2 In. (See Item 3)	FT Ratings — 1, 2, 3 and 4 Hr (See Items 3 and 4)
L Rating At Ambient — Less Than 1 CFM/Lin Ft	FH Ratings — 1, 2, 3 and 4 Hr (See Items 3 and 4)
L Rating At 400°F — Less Than 1 CFM/Lin Ft	FTH Ratings — 1, 2, 3 and 4 Hr (See Items 3 and 4)
Class II Movement Capabilities - 19 ,40 or 50% Compression and Extension (See Item 3)	Nominal Joint Widths —25.4, 38 and 51 mm (See Item 3)
	L Rating At Ambient — Less Than 1 CFM/Lin Ft
	L Rating At 400°F — Less Than 1 CFM/Lin Ft
	Class II Movement Capabilities - 19, 40 or 50% Compression and Extension (See Item 3)

1. **Floor Assembly** — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the floor assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The floor assembly shall include the following construction features:

A. **Steel Floor And Form Units*** — Max 3 in. (76 mm) deep galv steel fluted floor units.
B. **Concrete** — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

1A. **Roof Assembly** — (Not Shown) — As an alternate to the floor assembly (Item 1), a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the roof assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The roof assembly shall include the following construction features:

A. **Steel Roof Deck** — Max 3 in. (76 mm) deep galv steel fluted roof deck.
B. **Roof Insulation** — Min 2-1/4 n. (57 mm) thick poured insulating concrete, as measured from the top plane of the steel roof deck.

2. **Wall Assembly** — Min 6 in. (152 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. When the hourly rating is greater than 3 hr, the min thickness of the wall is 7-5/8 in. Wall may also be constructed of any UL Classified Concrete Blocks*.
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

3. **Joint System** — Max separation between bottom of floor or roof and top of wall (at time of installation of joint system) is 2 in. (51 mm) for 1 and 2 hr ratings and 1 in. (25 mm) for 3 and 4 hr ratings. The joint system is designed to accommodate a max 40 percent compression or extension from its installed width for 1 and 2 hr ratings. The joint system is designed to accommodate a max 50 percent compression or extension from its installed width up to 1-1/2in. (38 mm) joints for 1 and 2 hr ratings. The joint system is designed to accommodate max 19 percent compression or extension from its installed width for 3 and 4 hr ratings. The joint system consists of a forming material and a fill material, as follows:

A. **Forming Material*** — Sections of min 4 pcf (64 kg/m3) density mineral wool batt insulation cut to the width of the wall and inserted between the top of the wall and the valleys of the steel deck, compressed approx 50 percent in thickness beneath each valley. Additional pieces of mineral wool batt cut to the shape of the steel deck flute, stacked to a thickness approx 1 in. (25 mm) greater than the overall thickness of the wall and installed in the flutes above the wall. Mineral wool in flutes to be compressed approx 14 percent in thickness such that it is flush with each surface of the wall.

INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — Safe

ROCKWOOL — Safe

THERMAFIBER/OWENS CORNING — SAF

A1. **Forming Material*** — (Optional, Not Shown) - Preformed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner and shall be recessed from both wall surfaces to accommodate the required thickness of fill material (Item 3B). Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.
THERMAFIBER/OWENS CORNING — TopStop mineral wool deck plugs Type SAF batts

B. **Fill, Void or Cavity Material***—Sealant — Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6 mm dry) of fill material spray applied on each side of the wall in the flutes of the steel floor or roof deck and between the top of the wall and the bottom of the steel floor or roof deck and overlap a min 1/2 in. (13 mm) onto wall on both sides of wall. Additional 1/8 in. (3.2 mm) wet thickness of fill material shall overlap a min 1/2 in. (13 mm) onto the steel deck on both sides of wall.
SPECIFIED TECHNOLOGIES INC — SpecSeal AS200 Elastomeric Spray

4. **Through Penetrant** — (Optional, Not Shown) - Max one penetrant per flute to be installed parallel and centered within the flutes of the steel deck. Penetrants installed with a min annular space of 1/2 to 1-2/ in. in. (13-38 mm) between the penetrant and the steel deck. Penetrant to be rigidly supported on both sides of wall assembly. The following types and sizes of penetrants may be used:

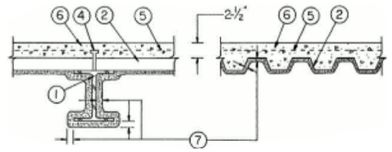
A. **Conduit** — Nom 1/2 in. diam (or smaller) steel electrical metallic tubing (EMT) or steel conduit.
B. **Conduit** — Nom 1-1/2 in. diam (or smaller) Schedule 40 PVC conduit.
C. **Polyvinyl Chloride (PVC) Pipe** — Nom 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
D. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** — Nom 1-1/2 in. (38 mm) diam (or smaller) SDR17 SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

When steel conduit or EMT (Item 4A) is installed in flute of steel deck, the hourly rating of the joint system is 1 hr. When nonmetallic penetrates (Items 4B, 4C and 4D) are installed in flute of steel deck, the hourly rating of the joint system is equal to the hourly fire rating of the wall assembly up to a max of 2 hr.

Design No. D601
November 17, 2023

Restrained Assembly Rating — 1, 2 and 3 Hr. (See Item 7).
Unrestrained Assembly Rating — 1, 1-1/2, and 2 Hr. (See Items 7).
Unrestrained Beam Rating — 1, 1-1/2, and 2 Hr. (See Item 7).
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Steel Beam** — Minimum steel beam size as described in Item 7. Beams shall be primed with a metal alkyd or epoxy primer at a nominal thickness of 1 mil.

2. **Steel Floor And Form Units* —** 1-1/2, 2 or 3 in. deep, min 20 MSG galv fluted units. Spacing of welds attaching units to supports shall be 12 in. OC max. Adjacent units buttpuncheer or welded together at side joints and shall not exceed 36 in. OC. Steel Floor And Form Units shall be primed with an acrylic primer at a nominal thickness of 1 mil.
VULCRAFT, DIV OF NUCOR CORP — 36 in. wide Types 1.5 VL, 1.5 VLI and 24 or 36 in. wide Types 2 VLI, 3 VLI fluted units; 36 in. wide Type 1.5VLP, and 24 or 36 in.

3. **Joint Cover —** (Not Shown) — Nom. 2 in. wide, pressure-sensitive tape, applied following the contour of floor units when butted over beams.

4. **Shear Connector Studs —** Optional — (Not Shown) — Studs, 3/4 in. diam, by 3 in. long for 1-1/2 in. deep form units to 5-1/4 in. for 3 in. deep units, headed type or equivalent per AISC specifications. Welded to top beam flange through steel form units.

5. **Welded Wire Fabric —** 6x6-W1.4xW1.4.

6. **Normal Weight Or Lightweight Concrete —** Normal weight concrete: carbonate or siliceous aggregate, 147 plus or minus 3 pcf unit weight, 3000 psi compressive strength, vibrated. Lightweight aggregate concrete: expanded shale, clay or slate aggregate by rotary-kiln method, 109 plus or minus 3 pcf unit weight, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air. Min thickness as measured to crests of steel floor and form units, 2-1/2 in.

7. **Intumescent Fire-resistive Materials * —** Coating spray, or brush applied directly from containers to desired thickness over primers. See tables below for appropriate final dry thickness and applicable rating. When mineral wool (Item 9) is used, the top surface of the beam need not be protected with coating.

Types SprayFilm WB3, WB3, SprayFilm WB4, or WB4
Min. Dry Film Thickness On Steel Deck

Restrained Assembly Rating, Hr.	Unrestrained Assembly Rating, Hr.	mils	mm
1	1	99	2.51
2	1	99	2.51
3	1-1/2	99	2.51
3	2	99	2.51

Types SprayFilm WB3, WB3, SprayFilm WB4, or WB4

			W8 x 24		W8 x 28	
Restrained Assembly Rating, Hr.	Unrestrained Assembly Rating, Hr.	Unrestrained Beam Rating, Hr.	Min. Dry Film Thickness On Beam		Min. Dry Film Thickness On Beam	
			mils	mm	mils	mm
1	1	1	53	1.34	43	1.10
2	1	1	53	1.34	43	1.10
3	1-1/2	1-1/2	66	1.67	66	1.67
3	2	2	115	2.92	115	2.92

Types SprayFilm WB5 or WB5

			W8 x 24		W8 x 28	
Restrained Assembly Rating, Hr.	Unrestrained Assembly Rating, Hr.	Unrestrained Beam Rating, Hr.	Min. Dry Film Thickness On Beam		Min. Dry Film Thickness On Beam	
			mils	mm	mils	mm
1	1	1	35	0.88	35	0.88
2	1	1	35	0.88	35	0.88
3	1-1/2	1-1/2	60	1.52	49	1.23
3	2	2	100	2.53	100	2.53

ISOLATEK INTERNATIONAL — Type SprayFilm-WB 3 and Type WB 3, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Exterior Use with top coat as described in Item 8. Type SprayFilm-WB 5 and Type WB 5, Investigated for Interior Conditioned Space and Interior General Purpose, Investigated for Exterior Use with top coat as described in Item 8A.

NEWKEM PRODUCTS CORP — Type WB 5, Investigated for Interior Conditioned Space and Interior General Purpose.

8. **Top Coat** — (Not Shown) — Type SprayFilm - TOPSEAL and Type TOPSEAL required for Exterior Use with Type SprayFilm-WB 4 and Type WB 4, applied at a minimum dry thickness of 14 mils (0.34 mm) over the intumescent material. See Classification information in the Mastic and Intumescent Coating (CDWZ) category, Isolatek International, for mixing requirements.

8A. **Top Coat** — (Not Shown) — Type TNEMEC 740 required for Exterior Use with Type SprayFilm WB5, applied at a minimum dry thickness of 7 mils over the intumescent material. See Classification information in the Mastic and Intumescent Coating (CDWZ) category, Isolatek International, for mixing requirements

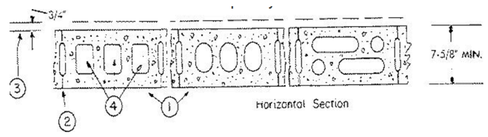
9. **Mineral Wool Insulation** — (Not Shown) — Min 6 pcf mineral wool insulation cut into pieces and firmly packed into, and completely filling the spaces between the flutes of the steel floor and form units and the top flange of the beam. Mineral wool is not required when the top flange of the beam is protected with intumescent coating at the same thickness shown in the table in item 7.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Design No. U905
April 14, 2023

Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 HR
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Concrete Blocks*** — Various designs. Classification D-2 (2 hr).
See Concrete Blocks category for list of eligible manufacturers.

2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield® CGF, EnergyShield® PanelCast, EnergyShield® and "EnergyShield® XR

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

Holcim Solutions and Products US, LLC — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

5A. **Building Units*** — As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

ATLAS ROOFING CORP — EnergyShield® Ply

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

RATED ASSEMBLIES GENERAL NOTES

1. UL CERTIFIED RATED ASSEMBLIES ARE REPRINTED FROM THE ONLINE CERTIFICATIONS DIRECTORY WITH PERMISSION FROM UNDERWRITERS LABORATORIES, INC.
2. FIRE PROTECTION MATERIALS DENOTED IN THE FIRE PROTECTION DETAILS PROVIDED HEREIN SHALL NOT BE CONSTRUED AS PROPRIETARY. EQUIVALENT FIRE PROTECTION SYSTEMS MAY BE UTILIZED IF SUBMITTED BY THE CONTRACTOR FOLLOWING REQUIREMENTS SET FORTH IN THE GENERAL CONDITIONS.
3. ANY SUBSTITUTIONS OF MATERIALS USED IN RATED ASSEMBLIES ARE SUBJECT TO APPROVAL BY AUTHORITIES HAVING JURISDICTION.
4. CONSTRUCT FIRE-RATED PARTITIONS TO ENSURE CONTINUITY, PRIOR TO NON-RATED PARTITIONS AND WITH PRECEDENCE GIVEN TO HIGHER RATINGS.
5. GAGES, SIZES, FASTENERS, AND OTHER QUANTITATIVE NOTES AND SPECS ARE MINIMUMS. IF CONFLICTS EXIST, THE MORE STRINGENT NOTE/SPEC TAKES PRECEDENCE.
6. NON-METALLIC ELECTRICAL BOXES SHALL NOT BE INSTALLED ON OPPOSITE SIDES OF FIRE-RATED WALLS UNLESS CLASSIFIED FOR FIRE RESISTANCE BY UL OR EQUIVALENT.
7. IN FIRE RATED WALLS, METALLIC ELECTRICAL OUTLET BOXES SHALL NOT EXCEED 16 SQ IN WALL FACE, NOR EXCEED 100 SQ IN AGGREGATE AREA PER 100 SQ FT OF WALL SURFACE. MAINTAIN MAXIMUM 1/8" CLEAR BETWEEN BOX AND GWB.
8. ALL FIRE-RATED WALL PENETRATIONS SHALL BE SEALED PER APPROPRIATE UL OR EQUIVALENT TEST METHODS.

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DKA JOB NUMBER
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DATE ISSUED

PERMIT DRAWINGS
05/02/25

SHEET TITLE
UL DETAILS

G004

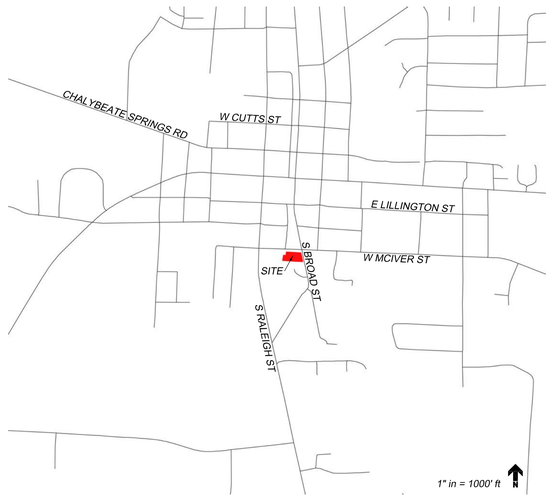
TOWN OF ANGIER POLICE HEADQUARTERS

29 WEST MCIVER STREET
ANGIER, NC 27501

PERMIT AND BID SET

TOWN OF ANGIER PLAN #TBD

VICINITY MAP



SITE DATA

PROJECT:	TOWN OF ANGIER POLICE STATION
OWNER CONTACT:	JIMMY COOK, PROJECT MANAGER
ADDRESS:	594 CAMPBLL STREET ANGIER, NC 27501
PHONE:	919-331-6708
EMAIL:	JCOOK@ANGIER.ORG
DESIGNER:	CLH DESIGN, PA
DESIGNER CONTACT:	KEITH DOWNING
ADDRESS:	REGENCY PARK 400 REGENCY FOREST DR, SUITE 120 CARY, NC 27518
PHONE:	919-319-7516
FAX:	919-319-7516
PROJECT ADDRESS:	29 W MCIVER ST ANGIER, NC 27604
PIN:	0673-78-5511.000
PID:	04067419180005
DEED BOOK & PAGE:	DB 4196 PG 0122
CURRENT ZONING:	GENERAL COMMERCIAL
EXISTING USE:	VACANT
PROPOSED USE:	POLICE STATION (CIVIC/GOVERNMENT BUILDING)
DEEDED ACREAGE:	0.84 ACRES
CALCULATED ACREAGE:	0.82 ACRES
EXISTING FLOOR AREA:	0 SF (VACANT)
PROPOSED GROSS FLOOR AREA:	3,724 SF
PROPOSED MAX BUILDING HEIGHT:	32'
EXISTING IMPERVIOUS AREA:	0 AC / 0 SF
PROPOSED IMPERVIOUS AREA:	0.43 AC / 19,075.74 SF
TOTAL BUILDOUT IMPERVIOUS AREA:	0.43 AC / 19,075.74 SF
DISTURBED AREA:	0.9 AC
FLOOR AREA RATIO:	(BUILDING SF / LOT SIZE) = 10%
BUILDING LOT COVERAGE:	(ALL IMPERVIOUS / LOT SIZE) = 51%
RIVER BASIN:	CAPE FEAR RIVER BASIN
FLOODZONE:	ZONE X
FEMA MAP:	PANEL 3720066200J

BUILDING / STRUCTURE SETBACKS (MIN)

FROM PRIMARY STREET:	15'
FROM SIDE LOT:	10'
FROM REAR LOT:	20'
MAX BUILDING HEIGHT	35'

PARKING REQUIREMENTS

GOVERNMENT BUILDING	1 PER 200 SF
PARKING CODE	CHAPTER 3 SECTION 3.3 PARKING
TOTAL SPACES REQ'D:	1 PER 200 SF
TOTAL SPACES PROVIDED:	26 SPACES
TOTAL H/C SPACES REQ'D:	NONE
TOTAL H/C SPACES PROVIDED:	1 H/C SPACES

INDEX OF DRAWINGS

CIVIL:

C000	COVER SHEET
C001	OVERALL PLAN
C101	EXISTING CONDITIONS AND DEMO PLAN
C201	STAKING PLAN
C203	PAVEMENT MARKING AND SIGNAGE PLAN
C301	GRADING PLAN
C401	EROSION CONTROL PLAN - INITIAL INSTALLATION
C402	EROSION CONTROL PLAN
C501	UTILITY PLAN
C601	LANDSCAPE PLAN
C701	EROSION CONTROL DETAILS
C702	EROSION CONTROL DETAILS
C801	SITE DETAILS
C802	SITE DETAILS
C803	SITE DETAILS
C901	STORM DETAILS
C902	SANITARY SEWER DETAILS
C903	WATER DETAILS

DUKE ENERGY:

25-0150A	STREET LIGHTING GRID OFF
25-0150A	STREET LIGHTING GRID ON

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LA: C-106
PE: C-1595

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ANGIER, NC 27501

SEALS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT
No. 1047
KEITH DOWNING
05/02/25

DKA JOB NUMBER
Project Number

REVISIONS

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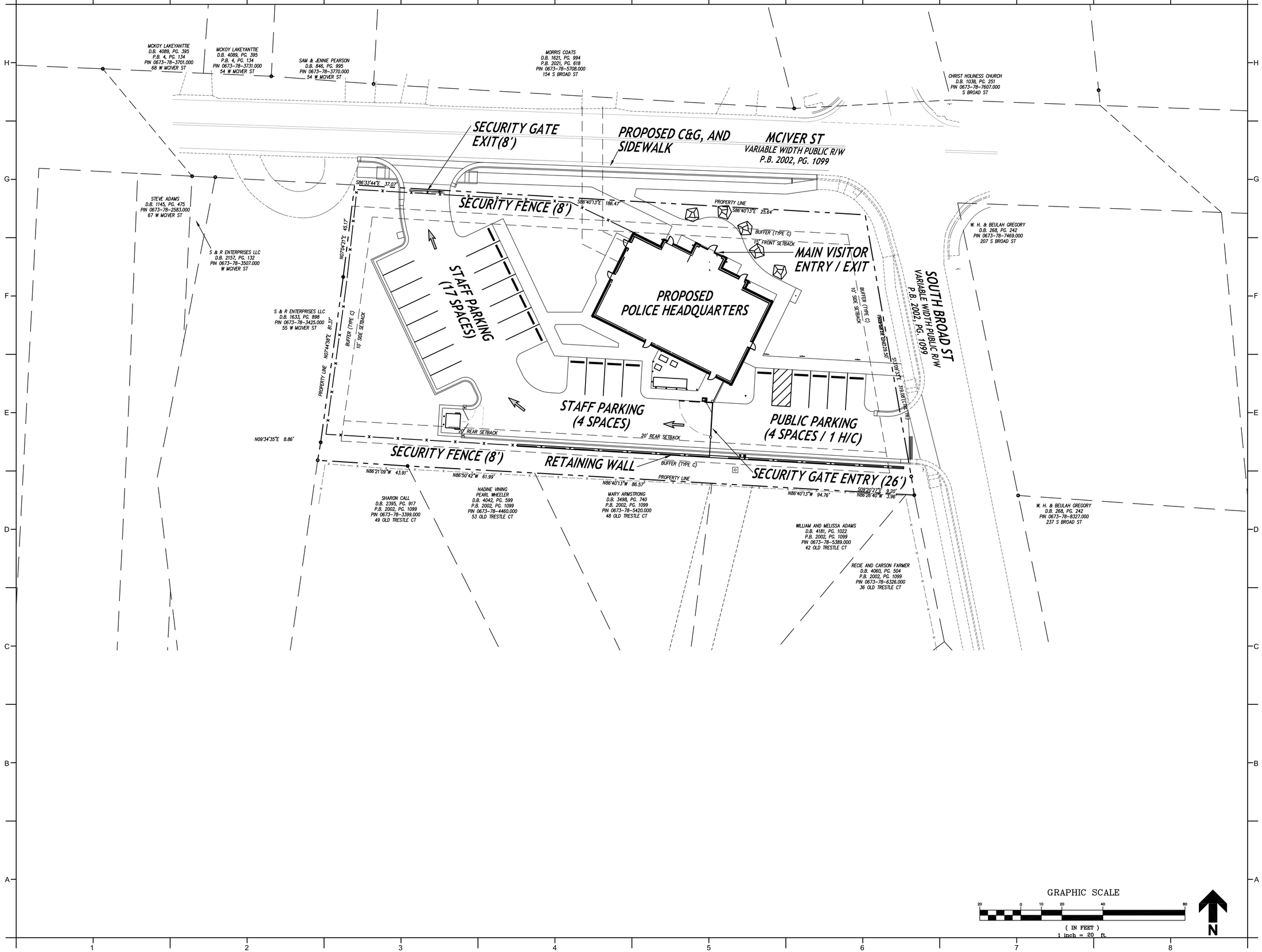
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SHEET TITLE
COVER SHEET

C000



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PROJECT INFORMATION

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SEALS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 1047 CHRISTOPHER W. DOWNING

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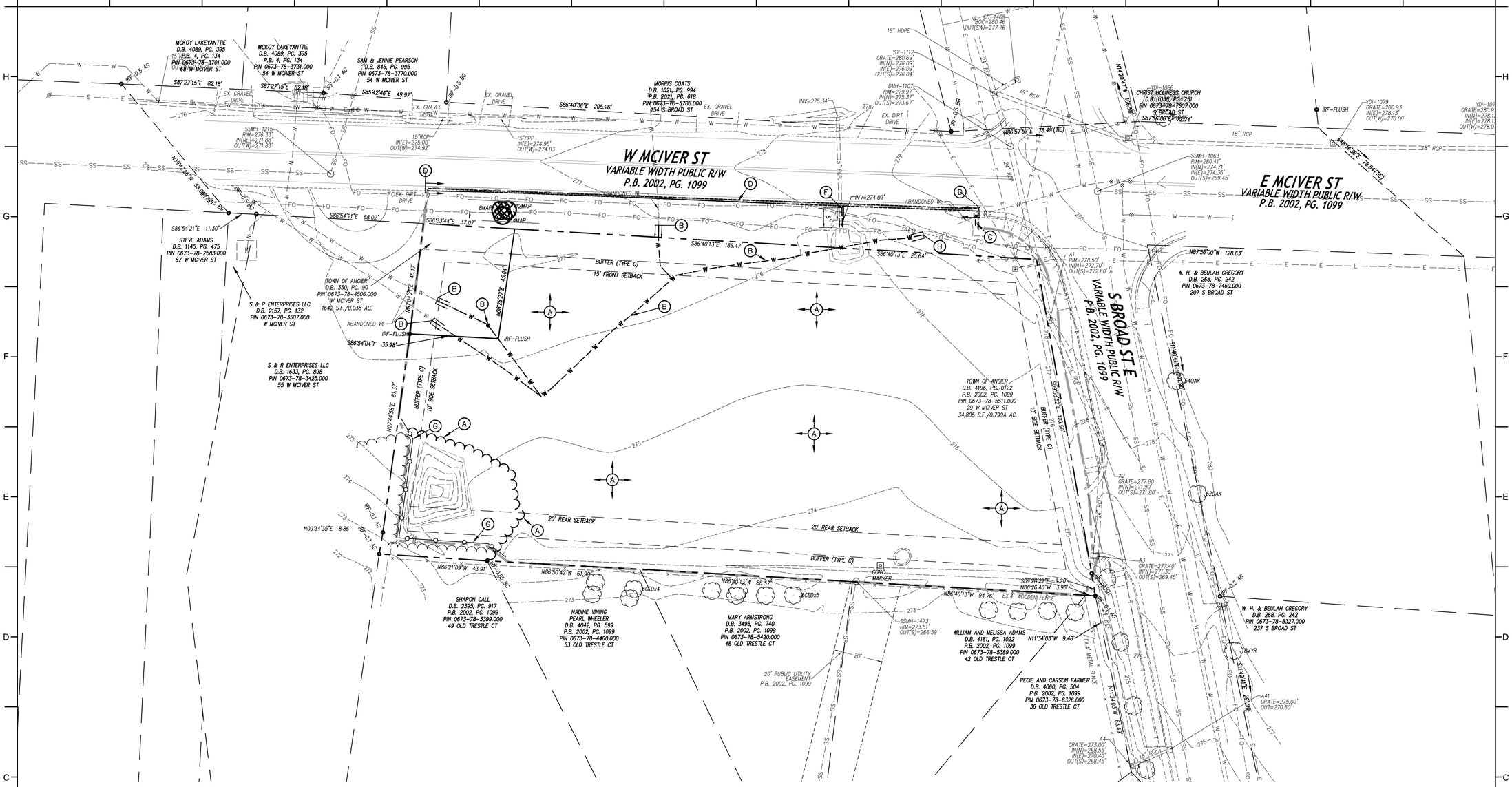
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SHEET TITLE

OVERALL PLAN

C001



DEMOLITION + EXISTING CONDITIONS LEGEND

STRUCTURES/UTILITIES TO BE REMOVED		STRUCTURES/UTILITIES TO REMAIN	
OVERHEAD ELECTRICAL	------- E -------	OVERHEAD ELECTRICAL	------- E -------
UNDERGROUND ELECTRICAL	-------UE-------	UNDERGROUND ELECTRICAL	-------UE-------
FIRE PROTECTION	-------FP-------	FIRE PROTECTION	-------FP-------
GAS	------- G -------	GAS	------- G -------
SANITARY SEWER	-------SS-------	SANITARY SEWER	-------SS-------
TELEPHONE	------- T -------	TELEPHONE	------- T -------
UNDERGROUND TELEPHONE	-------UT-------	UNDERGROUND TELEPHONE	-------UT-------
FIBER OPTIC	-------FO-------	FIBER OPTIC	-------FO-------
WATER	------- W -------	WATER	------- W -------
FORCE MAIN	-------FM-------	FORCE MAIN	-------FM-------
STORM DRAIN		STORM DRAIN	
INDIVIDUAL TREE TO BE REMOVED.		INDIVIDUAL TREE TO REMAIN.	
LIGHT POLE	LP	LIGHT POLE	LP
UTILITY POLE	PP	UTILITY POLE	PP
MANHOLE	MH	MANHOLE	MH
CLEAN OUT	CO	CLEAN OUT	CO
DROP INLET,CATCH BASIN	DI, CB	DROP INLET,CATCH BASIN	DI, CB
FIRE HYDRANT	FH	FIRE HYDRANT	FH
WATER VALVE	WV	WATER VALVE	WV
CONSTR./CLEARING LIMITS		PAVEMENT, S/W, C&G TO BE REMOVED.	
TREE PROTECTION FENCE		BUILDING/STRUCTURE TO BE REMOVED. SEE ARCHITECTURAL PLANS.	

DEMOLITION + EXISTING CONDITIONS GENERAL NOTES

1. ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD ON THIS PLAN SHALL BE REMOVED.
2. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
3. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
4. ALL WASTE MATERIAL GENERATED FROM DEMOLITON ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
5. EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM SURVEY BY STEWART, PERFORMED 10/20/2023. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
6. INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL AREAS AS SHOWN AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS). ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
7. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF CLEARING LIMITS, THE CONTRACTOR SHALL CUT 2-FT DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR ROOTS.
8. PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ARCHITECT IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
9. VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
10. CONTACT UTILITY LOCATING SERVICE (NC-811) 3-12 BUSINESS DAYS PRIOR TO EXCAVATION.
11. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ARCHITECT AT CONTRACTOR'S EXPENSE. AREAS TO BE PROTECTED, REPAIRED AND CLEANED SHALL ALSO INCLUDE ANY STAGING AREAS, ACCESS ROUTES AND OTHER EXISTING IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS THAT ARE TO REMAIN.
12. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ANGIER AND/OR NCDOT STANDARDS AND SPECIFICATIONS.
13. ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.
14. DEMOLITION AND PATCHING OF PAVEMENT, SIDEWALK, CURB AND GUTTER AND OTHER EXISTING PAVED SURFACES IN ADDITION TO THAT INDICATED ON THIS PLAN SHALL BE PERFORMED AS REQUIRED TO CONSTRUCT AND INSTALL NEW UTILITIES. ALL SUCH DEMOLITION AND PATCHING SHALL BE INCLUDED IN THE BASE BID SCOPE OF WORK. SEE SHEET C802 FOR PAVEMENT REPAIR DETAILS.
15. THIS SITE IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 3720066200J, DATED 10/3/2006 AS BEING WITHIN ZONE "X-OTHER AREA".
16. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

DEMOLITION / EXISTING CONDITIONS KEY NOTES

- (A) CLEAR AND GRUB, STRIP TOPSOIL WITHIN CONSTRUCTION LIMITS.
- (B) UTILITY LINE/STRUCTURE TO BE REMOVED/RELOCATED BY LOCAL UTILITY COMPANY. LOCAL UTILITY COMPANY SHALL DETERMINE THE LIMITS AND EXTENT OF REMOVAL/RELOCATION OF UTILITIES REQUIRED FOR NEW CONSTRUCTION. COORDINATE SCHEDULE AND WORK WITH LOCAL UTILITY COMPANY AND ARCHITECT/OWNER.
- (C) SIGN AND POST TO BE REMOVED. RELOCATE SIGN ON NEW POST AS INDICATED ON SITE STAKING PLAN.
- (D) ASPHALT OR CONCRETE PAVEMENT TO BE REMOVED.
- (E) CAP AND ABANDON UTILITY IN ACCORDANCE WITH SPECIFICATIONS.
- (F) CONTRACTOR TO REMOVE SEGMENT OF RCP UPON COMPLETION OF NEW STORM INLET
- (G) TEMPORARY TREE PROTECTION FENCE, SEE DETAIL SHEET C803.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

N

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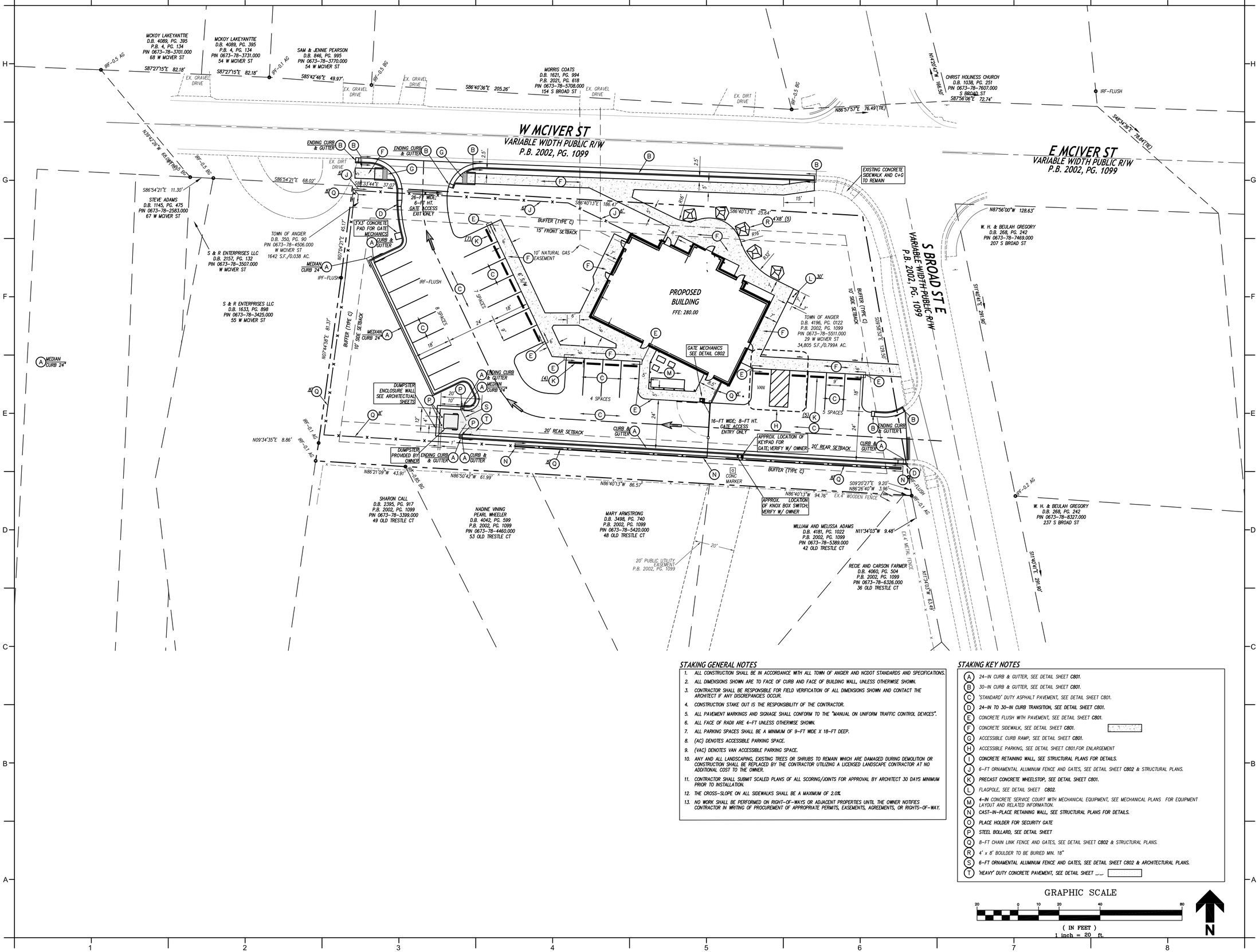
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SHEET TITLE
DEMOLITION & EXISTING CONDITIONS PLAN

C101



STAKING GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ANGIER AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF RADII ARE 4-FT UNLESS OTHERWISE SHOWN.
7. ALL PARKING SPACES SHALL BE A MINIMUM OF 9-FT WIDE X 18-FT DEEP.
8. (AC) DENOTES ACCESSIBLE PARKING SPACE.
9. (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
10. ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

STAKING KEY NOTES

- (A) 24-IN CURB & GUTTER, SEE DETAIL SHEET C801.
- (B) 30-IN CURB & GUTTER, SEE DETAIL SHEET C801.
- (C) "STANDARD" DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C801.
- (D) 24-IN TO 30-IN CURB TRANSITION, SEE DETAIL SHEET C801.
- (E) CONCRETE FLUSH WITH PAVEMENT, SEE DETAIL SHEET C801.
- (F) CONCRETE SIDEWALK, SEE DETAIL SHEET C801.
- (G) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C801.
- (H) ACCESSIBLE PARKING, SEE DETAIL SHEET C801.FOR ENLARGEMENT
- (I) CONCRETE RETAINING WALL, SEE STRUCTURAL PLANS FOR DETAILS.
- (J) 6-FT ORNAMENTAL ALUMINUM FENCE AND GATES, SEE DETAIL SHEET C802 & STRUCTURAL PLANS.
- (K) PRECAST CONCRETE WHEELSTOP, SEE DETAIL SHEET C801.
- (L) FLAGPOLE, SEE DETAIL SHEET C802.
- (M) 4-IN CONCRETE SERVICE COURT WITH MECHANICAL EQUIPMENT, SEE MECHANICAL PLANS FOR EQUIPMENT LAYOUT AND RELATED INFORMATION.
- (N) CAST-IN-PLACE RETAINING WALL, SEE STRUCTURAL PLANS FOR DETAILS.
- (O) PLACE HOLDER FOR SECURITY GATE
- (P) STEEL BOLLARD, SEE DETAIL SHEET
- (Q) 8-FT CHAIN LINK FENCE AND GATES, SEE DETAIL SHEET C802 & STRUCTURAL PLANS.
- (R) 4' x 8' BOULDER TO BE BURIED MIN. 18"
- (S) 6-FT ORNAMENTAL ALUMINUM FENCE AND GATES, SEE DETAIL SHEET C802 & ARCHITECTURAL PLANS.
- (T) "HEAVY" DUTY CONCRETE PAVEMENT, SEE DETAIL SHEET ___

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SEALS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 1047 TIMOTHY DOWNING

DKA JOB NUMBER

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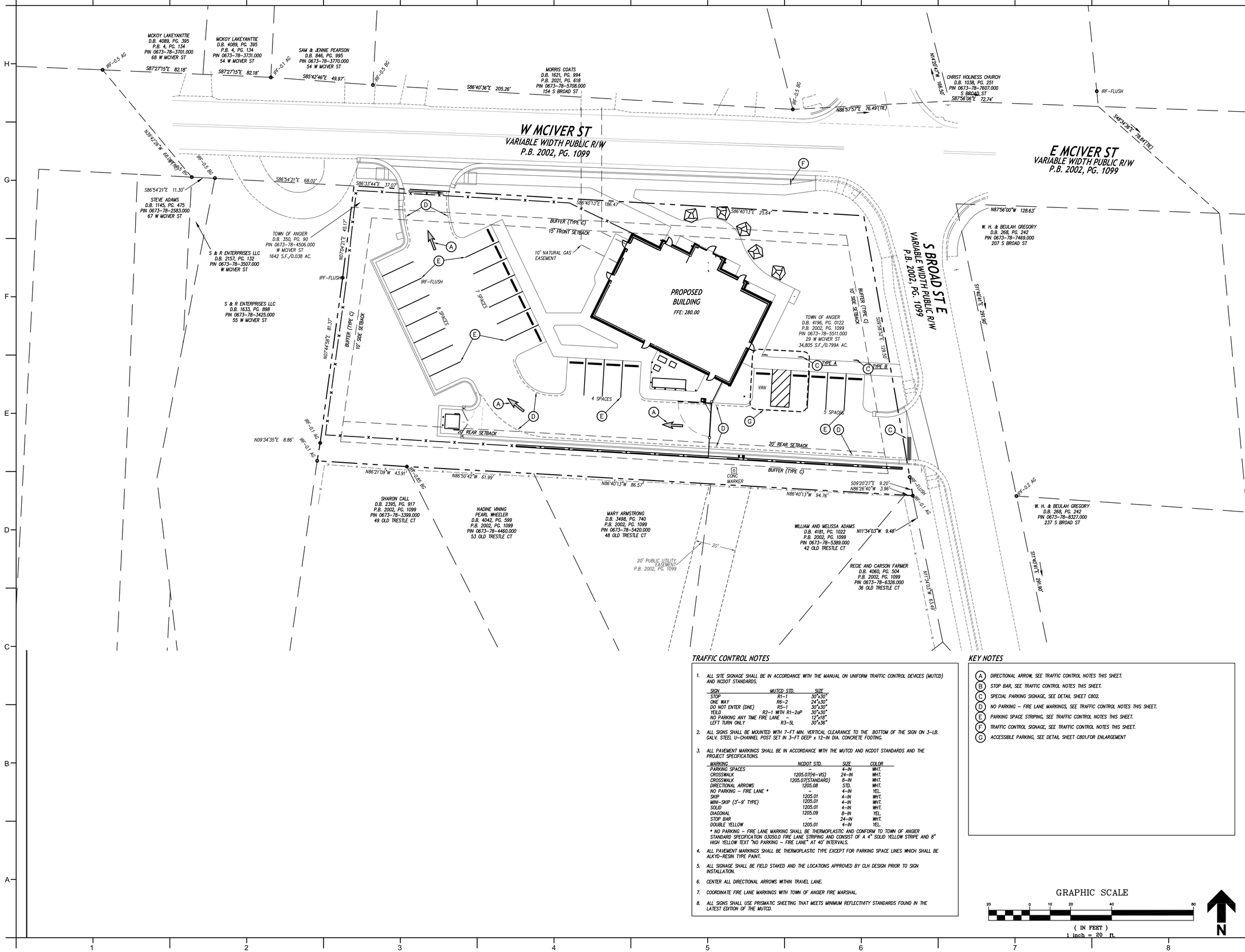
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SHEET TITLE

STAKING PLAN

C201



TRAFFIC CONTROL NOTES

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"
ONE WAY	R6-2	24"x30"
DO NOT ENTER (DNE)	R5-1	30"x30"
YEILD	R2-1 WITH R1-2aP	30"x30"
NO PARKING ANY TIME FIRE LANE	–	12"x18"
LEFT TURN ONLY	R3-5L	30"x36"

2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP x 12-IN DIA. CONCRETE FOOTING.

3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACES	–	4–IN	WHT.
CROSSWALK	1205.07(HI–VIS)	24–IN	WHT.
CROSSWALK	1205.07(STANDARD)	8–IN	WHT.
DIRECTIONAL ARROWS	1205.08	STD.	WHT.
NO PARKING – FIRE LANE *	–	4–IN	YEL.
SKIP	1205.01	4–IN	WHT.
MINI–SKIP (3'–9' TYPE)	1205.01	4–IN	WHT.
SOLID	1205.01	4–IN	WHT.
DIAGONAL	1205.09	8–IN	YEL.
STOP BAR	–	24–IN	WHT.
DOUBLE YELLOW	1205.01	4–IN	YEL.

* NO PARKING – FIRE LANE MARKING SHALL BE THERMOPLASTIC AND CONFORM TO TOWN OF ANGIER STANDARD SPECIFICATION 03050.D FIRE LANE STRIPING AND CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "NO PARKING – FIRE LANE" AT 40' INTERVALS.

4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE ALKYD–RESIN TYPE PAINT.

5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.

6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.

7. COORDINATE FIRE LANE MARKINGS WITH TOWN OF ANGIER FIRE MARSHAL.

8. ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.

KEY NOTES

- (A) DIRECTIONAL ARROW, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (B) STOP BAR, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (C) SPECIAL PARKING SIGNAGE, SEE DETAIL SHEET C802.
- (D) NO PARKING – FIRE LANE MARKINGS, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (E) PARKING SPACE STRIPING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (F) TRAFFIC CONTROL SIGNAGE, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (G) ACCESSIBLE PARKING, SEE DETAIL SHEET C801.FOR ENLARGEMENT

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

N

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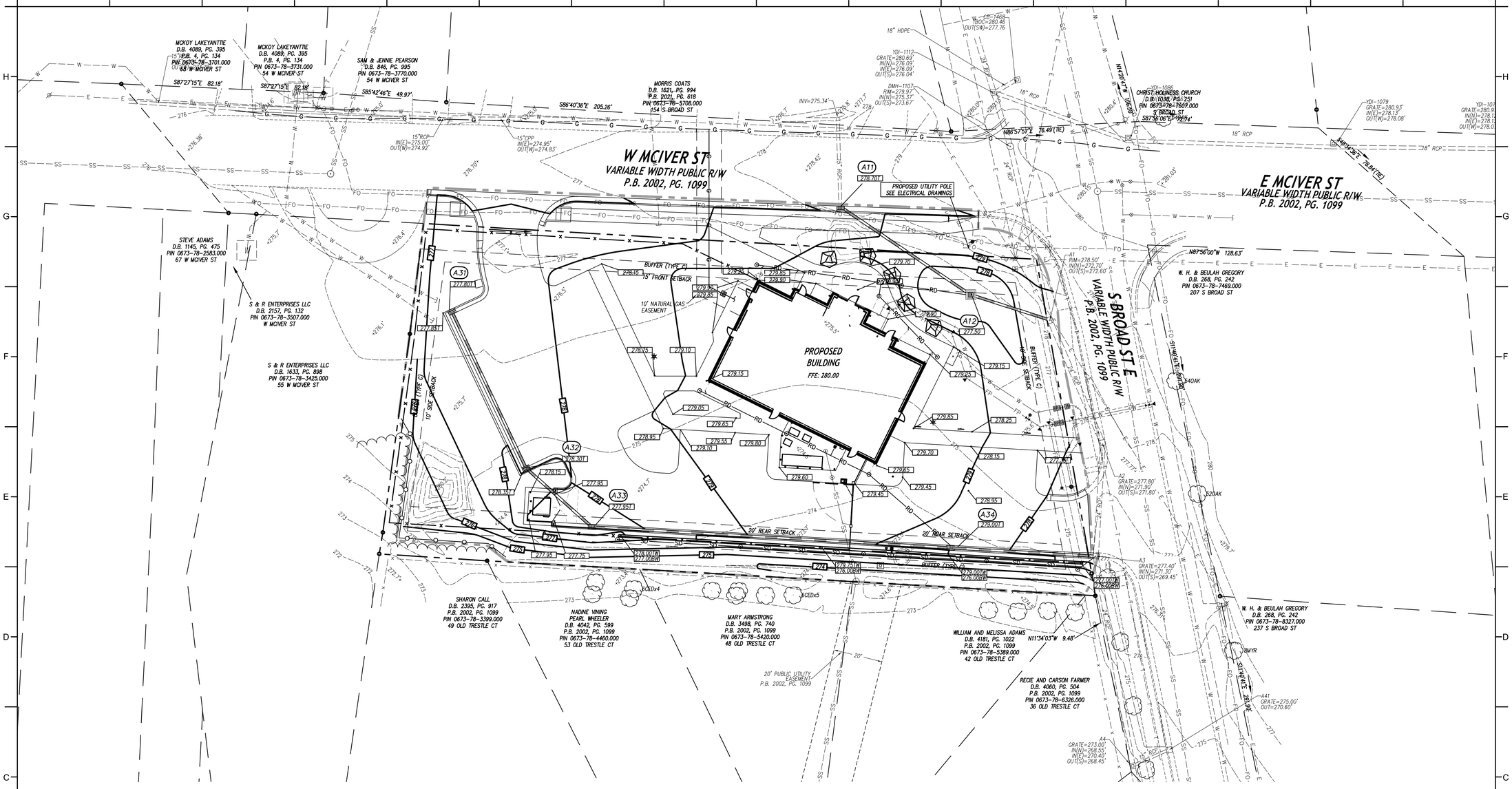
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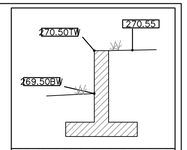
PAVEMENT MARKING PLAN

C202



GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- 270.4' + EXISTING SURVEY SPOT ELEVATION
- 270.50T PROPOSED TOP OF CURB SPOT ELEVATION
- 270.50 PROPOSED GROUND/PAVEMENT ELEVATION
- 270.50TW PROPOSED FINISHED GRADE AT TOP OF WALL ELEVATION
- 270.50BW PROPOSED FINISHED GRADE AT BOTTOM OF WALL ELEVATION
- (A4) STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- FD PROPOSED FOUNDATION DRAIN DISCHARGE LINE. SEE ARCH. PLANS FOR DRAIN PIPE LOCATIONS ALONG BUILDING WALLS.
- RD PROPOSED ROOF DRAIN
- TREE PROTECTION FENCE



TYP. GRADE DESIGNATIONS AT SITE WALLS

GRADING GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ANGIER AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
3. TOTAL DENUDED AREA = 1.2 AC
4. CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
5. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL ON SHEET C902.
7. EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED. UNLESS NOTED OTHERWISE.
8. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
10. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
11. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.
14. ALL STORM DRAIN FRAMES, GRATES AND HOOD SHALL BE STAMPED WITH "DRAINS TO RIVER" IN ACCORDANCE WITH TOWN OF CARY STANDARDS.

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO. UP STRM	DN STRM	PIPE SLOPE	PIPE DIA. (IN)	PIPE LENGTH (LF)	PIPE MATRL	UPPER INV. (FT)	LOWER INV. (FT)	UPSTREAM STRUCTURE DATA TOP ELEV. (FT) (1)	DEPTH (FT)	TYPE	NOTES
A11	A12	1.56%	15	64	RCP	274.20	273.20	278.70	4.50	CB	
A12	A1	1.21%	15	33	RCP	273.10	272.70	277.50	4.40	DI	
A31	A32	1.21%	15	70	RCP	273.40	272.55	277.80	4.40	CB	
A32	A33	1.11%	15	36	RCP	272.45	272.05	278.30	5.85	CB	
A33	A34	1.10%	15	146	RCP	271.95	270.35	277.95	6.00	CB	
A34	A3	1.17%	15	60	RCP	270.25	269.55	279.00	8.75	CB	

LEGEND

- CB CATCH BASIN, SEE DETAIL SHEET C901.
- DI DROP INLET, SEE DETAIL SHEET C901.
- FES PRECAST FLARED END SECTION
- MH STORM MONHOLE, SEE DETAIL SHEET C901.
- (A2) STRUCTURE I.D. NUMBER

NOTES

1. TOP ELEVATION IS TOP OF BACK OF CURB FOR CATCH BASINS, TOP OF RIM DROP INLETS, AND FINISH GRADE FOR CLEANOUTS.
2. ALL FES INLETS & OUTLETS SHALL BE RCP.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SEALS

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NORTH CAROLINA PROFESSIONAL SEAL 044600 ENGINEER CORINNE E. WILSON

DKA JOB NUMBER

Project Number

REVISIONS

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Plot Date: 04/10/2025

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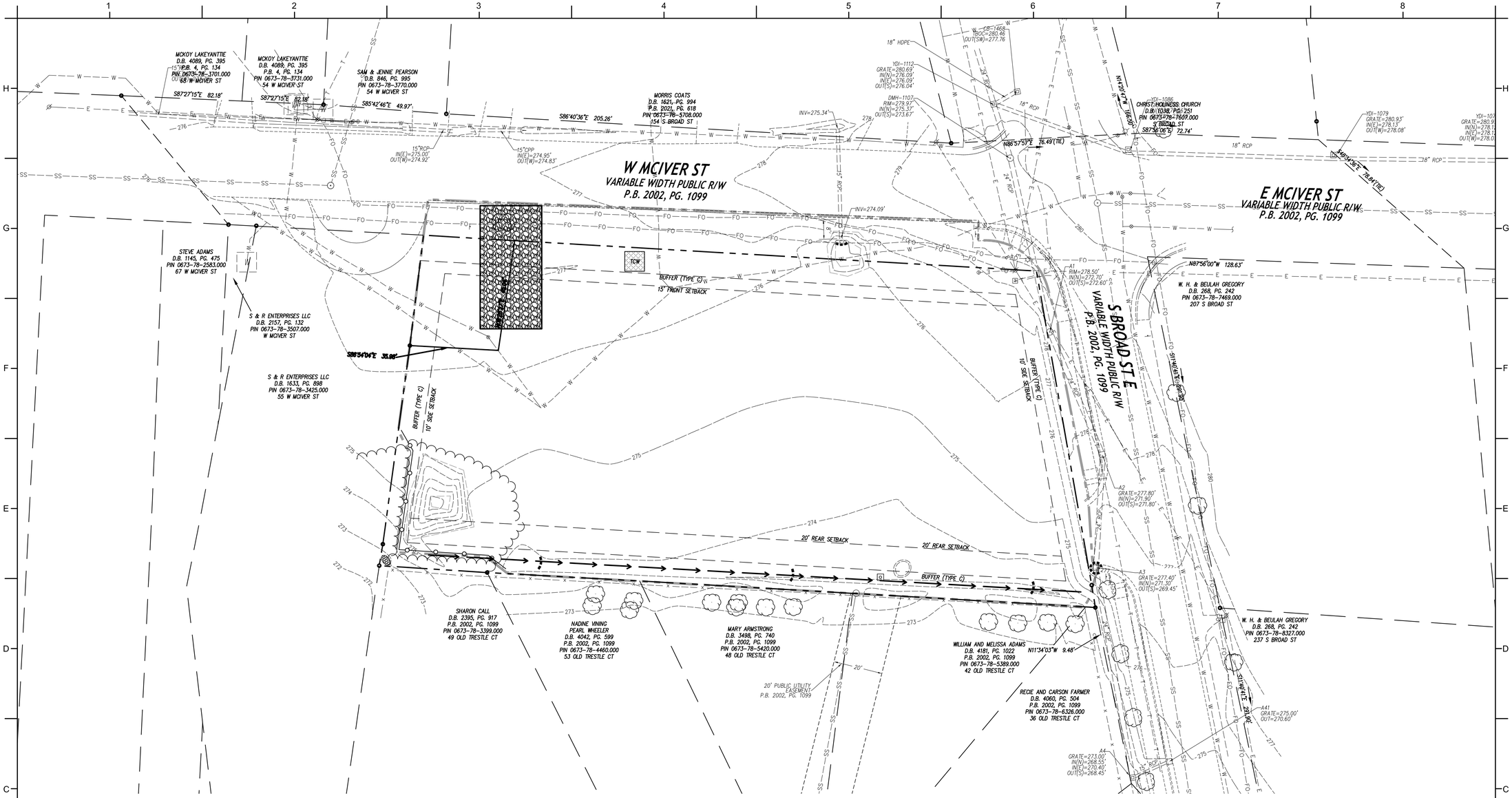
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05/02/2025

SHEET TITLE

GRADING PLAN

C301



EROSION CONTROL GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ANGIER, NCDEQ, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
4. TOTAL DISTURBED AREA: 1.2 AC.
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C702.
6. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
7. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
8. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
9. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
10. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
11. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
12. INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON DIVERSION DITCHES. SEE DETAIL SHEET C701 FOR TYPE OF MATTING TO USE.
13. ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
14. ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
15. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
16. CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.
17. CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

MAINTENANCE PLAN

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
5. ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET C701 FOR SELF-INSPECTION REQUIREMENTS.

THE FINANCIALLY RESPONSIBLE PERSON AND/OR HIS AGENT WILL BE PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCDEMLR'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ONSITE.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C701.

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION II.B(2) (b)).

THE REQUIREMENTS ON SHEET C701 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCELSIOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

CONSTRUCTION SEQUENCE

INITIAL EROSION CONTROL INSTALLATION

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES.
2. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR.
3. INSTALL TREE PROTECTION FENCING.
4. CONTACT NC DEQ LQS FAYETTEVILLE OFFICE AT 910-433-3300 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION.
5. THE CONTRACTOR SHALL CONDUCT SELF- INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES AND COMPETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE DEMLR WEBSITE: https://deq.nc.gov/about/divisions/energy-mineral-land-resources /erosion-sediment-control/forms. TWELVE MONTHS OF COMPLETE INSPECTION FORMS SHALL BE KEPT ON-SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS RECOMMENDED A COPY BE KEPT IN A PERMITS BOX.
6. THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE E&SC PLAN HAS BEEN CLOSED OUT BY LAND QUALITY: RAIN GAUGE, A COPY OF APPROVED E&SC PLAN WITH APPROVAL CERTIFICATE/LETTER, COC, AND NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE SELF-INSPECTION REQUIREMENTS BELOW). THESE ITEMS SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE. FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
7. CONTACT THE NC DEQ LQS FAYETTEVILLE OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITIES.
8. INSTALL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCES, TEMPORARY INLET PROTECTION DEVICES ON EXISTING INLETS AND TEMPORARY COMPOST SOCKS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
9. ESTABLISH TEMPORARY CONSTRUCTION TRAILERS WITHIN STAGING AREA.
10. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDED PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE. CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES.
11. CALL FOR INSPECTION OF INSTALLED DEVICES.

CONSTRUCTION EROSION CONTROL & MAINTENANCE

1. CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS.
2. STRIP TOPSOIL. STOCKPILE TOPSOIL WITHIN TEMPORARY STOCKPILE LIMITS. MAINTAIN ALL SILT FENCE AROUND TEMPORARY STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
3. BEGIN ROUGH GRADING OPERATIONS.
4. INSTALL STORM DRAINAGE SYSTEM AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY. STORM DRAINAGE SYSTEM SHALL BE INSTALLED IN DRY CONDITIONS. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
5. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
6. INSTALL SLOPE PROTECTION BLANKETS AND TEMPORARILY SEED STEEP SLOPES AS THEY ARE ESTABLISHED AT FINISH GRADE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
7. RESPREAD TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THE ARE ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
8. VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT. SEED STABILIZATION NOTES AND NPDES TIME TABLE.
9. INSTALL SILT BAG INLET PROTECTION ONCE CURB & GUTTER IS INSTALLED. PROVIDE TEMPORARY SAND BAGS TO DIRECT RUNOFF INTO INLETS.
10. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.

REMOVAL OF EROSION CONTROL DEVICES

1. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. CALL FOR INSPECTION OF STABILIZED SITE. SEED AND MULCH SLOPE OF ALL DISTURBED AREAS REMAINING ON SITE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
2. REMOVE TEMPORARY CONSTRUCTION ENTRANCES, CONTRACTOR STAGING AREA AND ANY REMAINING TEMPORARY MATERIAL STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
3. CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES. SEED AND MULCH ANY REMAINING DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
4. PERFORM AS-BUILT TOPOGRAPHIC SURVEYS OF SITE UTILITIES AS REQUIRED FOR CERTIFICATE OF OCCUPANCY CERTIFICATIONS.
5. WHEN THE PROJECT IS COMPLETE, THE PERMITEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT deq.nc.gov/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A $100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE e-NOT HAS BEEN FILLED OUT.

EROSION CONTROL LEGEND

- GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET C702.
- TEMP. COMPOST SOCK INLET PROTECTION DEVICE, SEE DETAIL SHEET C702.
- TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET C701.
- TEMP. SILT FENCE, SEE DETAIL SHEET C702.
- TEMP. REINFORCED SILT FENCE OUTLET, SEE DETAIL SHEET C702.
- PERMANENT OUTLET PROTECTION, SEE DETAIL SHEET C702.
- TCW — TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET C701.
- EXISTING CONTOUR
- FINISHED CONTOUR / TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
- PROPOSED STORM SEWER PIPES
- EXISTING STORM SEWER PIPES
- CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.
- TREE PROTECTION FENCE, SEE DETAIL SHEET C702.
- TEMP. COMPOST SOCK IN CHANNEL, SEE DETAIL SHEET C701.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

N

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

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Date: 2025.05.02 12:33:48-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 044600 ENGINEER CORINNE E. WILSON

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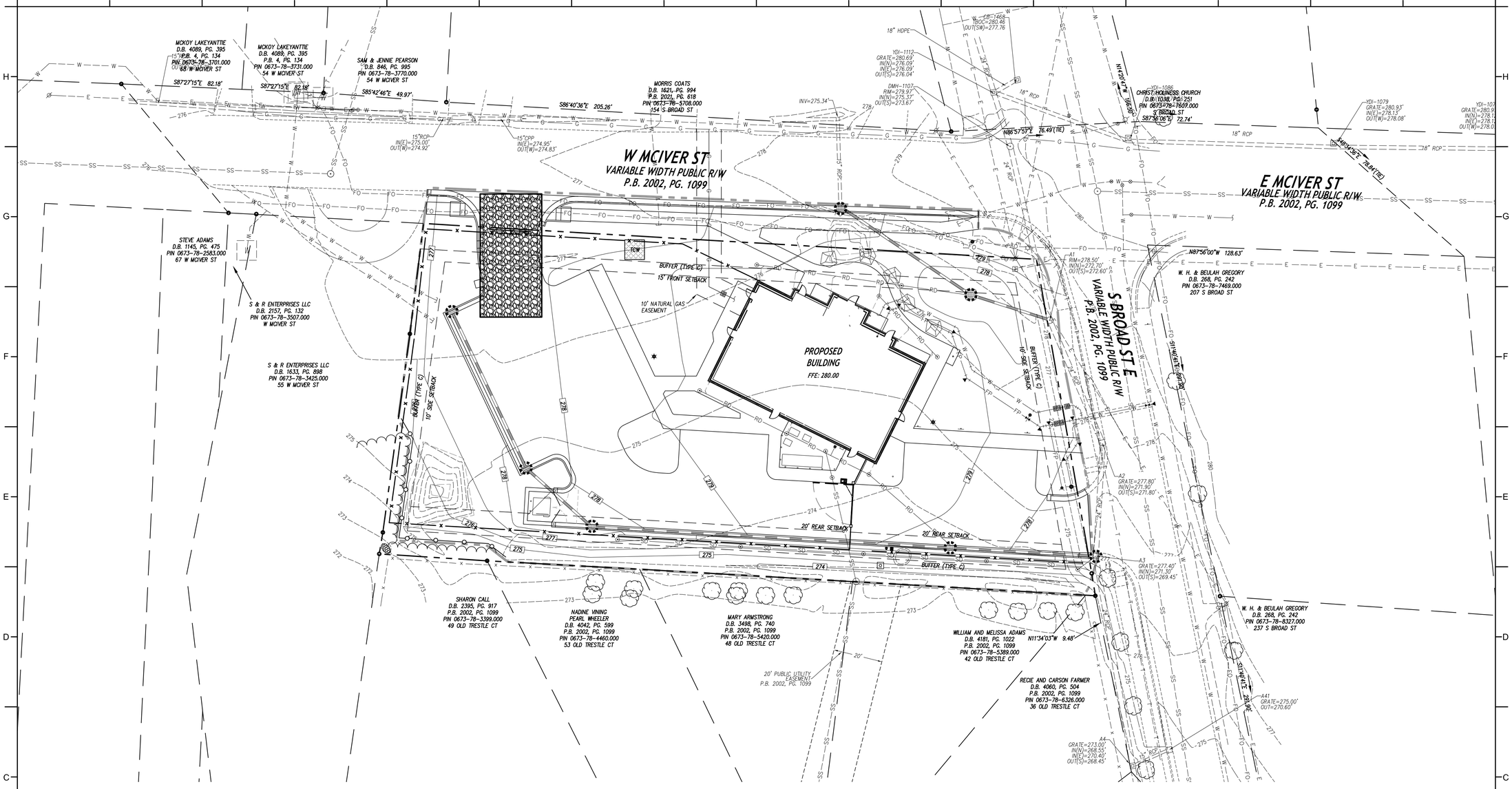
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PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

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SHEET TITLE
INITIAL EROSION CONTROL PLAN

C401



EROSION CONTROL GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ANGIER, NCDEQ, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
4. TOTAL DISTURBED AREA: 1.2 AC.
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY; SEE DETAIL SHEET C702.
6. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
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8. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
9. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
10. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
11. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
12. INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON DIVERSION DITCHES. SEE DETAIL SHEET C701 FOR TYPE OF MATTING TO USE.
13. ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
14. ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
15. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.
16. CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.
17. CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

MAINTENANCE PLAN

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C701) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
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4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
5. ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

SELF-INSPECTION RULES

SEE SHEET C701 FOR SELF-INSPECTION REQUIREMENTS.

THE FINANCIALLY RESPONSIBLE PERSON AND/OR HIS AGENT WILL BE PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCDEMLR'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ONSITE.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C701.

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION II.B(2) (b)).

THE REQUIREMENTS ON SHEET C701 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCELSIOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

CONSTRUCTION SEQUENCE

INITIAL EROSION CONTROL INSTALLATION

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES.
2. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR.
3. INSTALL TREE PROTECTION FENCING.
4. CONTACT NC DEQ LQS FAYETTEVILLE OFFICE AT 910-433-3300 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION.
5. THE CONTRACTOR SHALL CONDUCT SELF- INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES AND COMPETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE DEMLR WEBSITE: https://deq.nc.gov/about/divisions/energy-mineral-land-resources /erosion-sediment-control/forms. TWELVE MONTHS OF COMPLETE INSPECTION FORMS SHALL BE KEPT ON-SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS RECOMMENDED A COPY BE KEPT IN A PERMITS BOX.
6. THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE E&SC PLAN HAS BEEN CLOSED OUT BY LAND QUALITY: RAIN GAUGE, A COPY OF APPROVED E&SC PLAN WITH APPROVAL CERTIFICATE/LETTER, COC, AND NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE SELF-INSPECTION REQUIREMENTS BELOW). THESE ITEMS SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE. FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
7. CONTACT THE NC DEQ LQS FAYETTEVILLE OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBING ACTIVITIES.
8. INSTALL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCES, TEMPORARY INLET PROTECTION DEVICES ON EXISTING INLETS AND TEMPORARY COMPOST SOCKS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
9. ESTABLISH TEMPORARY CONSTRUCTION TRAILERS WITHIN STAGING AREA.
10. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED. AFTER SITE IS PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND PROVIDED PERMANENT SEEDING WHERE TEMPORARY MEASURES HAVE BEEN REMOVED AND GROUND COVER IS NOT ADEQUATE. CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES.
11. CALL FOR INSPECTION OF INSTALLED DEVICES.

CONSTRUCTION EROSION CONTROL & MAINTENANCE

1. CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS.
2. STRIP TOPSOIL, STOCKPILE TOPSOIL WITHIN TEMPORARY STOCKPILE LIMITS. MAINTAIN ALL SILT FENCE AROUND TEMPORARY STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
3. BEGIN ROUGH GRADING OPERATIONS.
4. INSTALL STORM DRAINAGE SYSTEM AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY. STORM DRAINAGE SYSTEM SHALL BE INSTALLED IN DRY CONDITIONS. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
5. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
6. INSTALL SLOPE PROTECTION BLANKETS AND TEMPORARILY SEED STEEP SLOPES AS THEY ARE ESTABLISHED AT FINISH GRADE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
7. RESPREAD TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THE ARE ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
8. VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT. SEED STABILIZATION NOTES AND NPDES TIME TABLE.
9. INSTALL SILT BAG INLET PROTECTION ONCE CURB & GUTTER IS INSTALLED. PROVIDE TEMPORARY SAND BAGS TO DIRECT RUNOFF INTO INLETS.
10. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.

REMOVAL OF EROSION CONTROL DEVICES

1. WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. CALL FOR INSPECTION OF STABILIZED SITE. SEED AND MULCH SLOPE OF ALL DISTURBED AREAS REMAINING ON SITE. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
2. REMOVE TEMPORARY CONSTRUCTION ENTRANCES, CONTRACTOR STAGING AREA AND ANY REMAINING TEMPORARY MATERIAL STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
3. CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES. SEED AND MULCH ANY REMAINING DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
4. PERFORM AS-BUILT TOPOGRAPHIC SURVEYS OF SITE UTILITIES AS REQUIRED FOR CERTIFICATE OF OCCUPANCY CERTIFICATIONS.
5. WHEN THE PROJECT IS COMPLETE, THE PERMITEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT deq.nc.gov/NCQOI TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A $100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE e-NOT HAS BEEN FILLED OUT.

EROSION CONTROL LEGEND

- GRAVEL CONSTR. ENTRANCE, SEE DETAIL SHEET C702.
- TEMP. COMPOST SOCK INLET PROTECTION DEVICE, SEE DETAIL SHEET C702.
- TEMP. DIVERSION DITCH / BERM, SEE DETAIL SHEET C701.
- TEMP. SILT FENCE, SEE DETAIL SHEET C702.
- TEMP. REINFORCED SILT FENCE OUTLET, SEE DETAIL SHEET C702.
- PERMANENT OUTLET PROTECTION, SEE DETAIL SHEET C702.
- TCW TEMP. CONCRETE WASHOUT AREA, SEE DETAIL SHEET C701.
- EXISTING CONTOUR
- FINISHED CONTOUR
- TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
- PROPOSED STORM SEWER PIPES
- EXISTING STORM SEWER PIPES
- CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.
- TREE PROTECTION FENCE, SEE DETAIL SHEET C702.
- TEMP. COMPOST SOCK IN CHANNEL, SEE DETAIL SHEET C701.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SEALS

Digitally signed by Corinne Wilson
Date: 2025.05.02 12:34:01-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 044600 ENGINEER CORINNE E. WILSON

DKA JOB NUMBER

Project Number

REVISIONS

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PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED

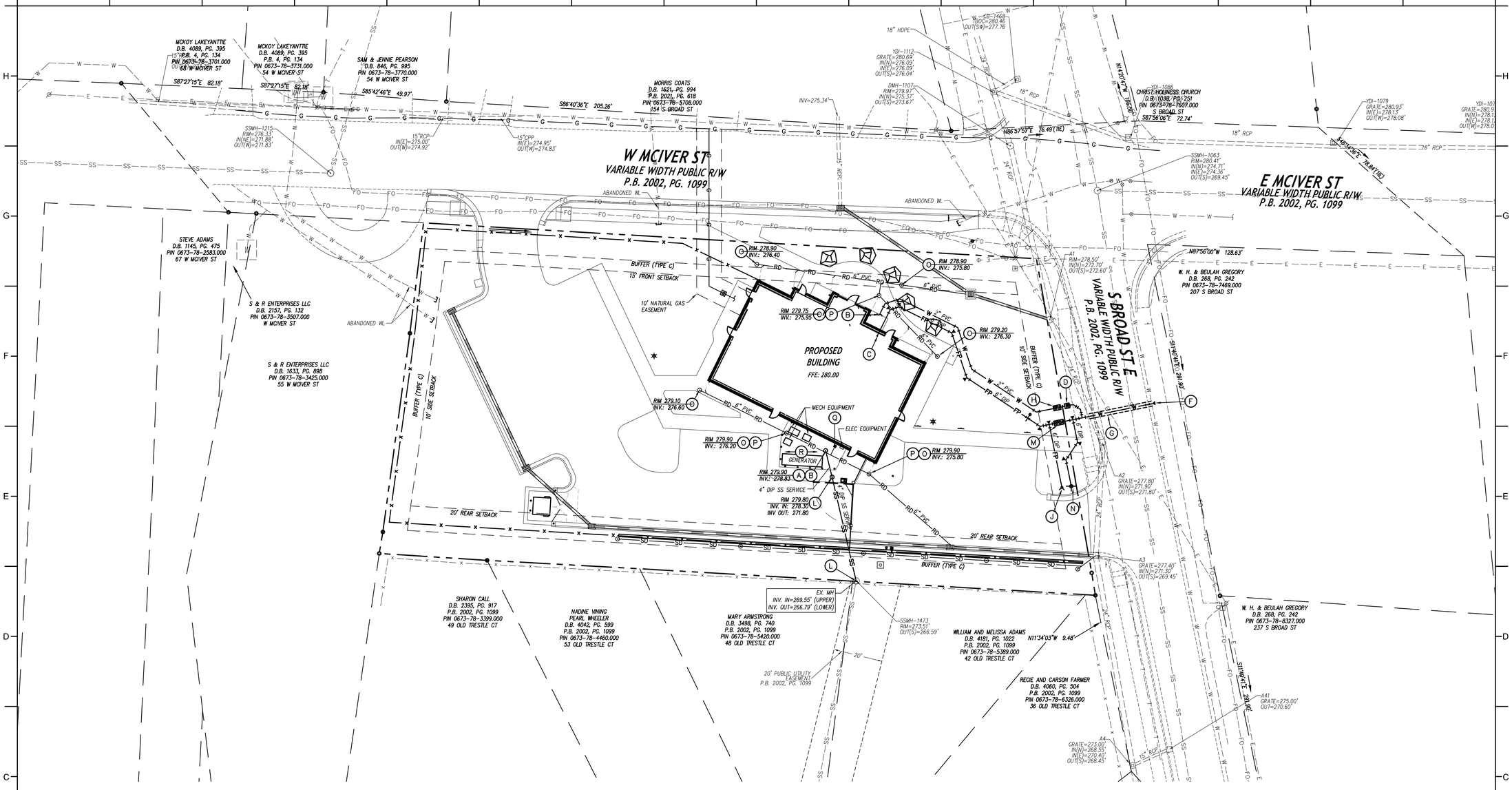
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05/02/2025

SHEET TITLE

EROSION CONTROL PLAN

C402



UTILITY LEGEND

	EXISTING	PROPOSED
CHILLED WATER	-------CW-------	CW
ELECTRICAL (OVERHEAD)	------- E -------	E
ELECTRICAL (UNDERGROUND)	-------UE-------	UE
FOUNDATION DRAIN	-------FD-------	FD
GAS	------- G -------	G
SANITARY SEWER	-------SS-------	SS
TELEPHONE (OVERHEAD)	------- T -------	T
TELEPHONE (UNDERGROUND)	-------UT-------	UT
WATER	------- W -------	W
ROOF DRAIN	-------RD-------	RD
FIRE PROTECTION	-------FP-------	FP
STORM DRAIN	═══════	═══════
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS		
LIGHT POLE	LP	
UTILITY POLE	PP	
MANHOLE	MH	
CLEAN OUT	CO	
DROP INLET,CATCH BASIN	DI, CB	
FIRE HYDRANT	FH	
WATER VALVE	WV	
POST INDICATOR VALVE (PIV)		
FIRE DEPARTMENT CONNECTION (FDC)		
THRUST BLOCKING		
SANITARY SEWER STRUCTURE IDENTIFICATION		1

UTILITY GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ANGIER AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. INSTALL WATERMAINS WITH A COVER OF NO LESS THAN 3-FT.
3. INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, 4-FT TO FINISH GRADE IN TRAFFIC AREAS.
4. INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
5. WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10-FT.
6. SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 24-IN TO STORM DRAINAGE PIPES.
7. COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
8. VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
9. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
10. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION, SEE SPECS FOR ALL AS-BUILT REQUIREMENTS.
12. CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT- DOWNS WITH THE OWNER.
13. SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
14. ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
15. ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
16. ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
17. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

UTILITY KEY NOTES

- (A) SANITARY SEWER CLEANOUT, TYP. SEE DETAIL SHEET C902.
- (B) EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION AND INVERTS.
- (C) EXTEND FIRE SERVICE LINE TO 12-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION/PLUMBING CONNECTION, SEE DETAIL SHEET C905. REFER TO FIRE PROTECTION/PLUMBING PLANS FOR EXACT LOCATION.
- (D) 2-IN DOMESTIC WATER METER, SEE DETAIL SHEET C903.
- (E) FIRE PROTECTION BACKFLOW PREVENTOR INSIDE BUILDING. SEE FIRE PROTECTION PLANS FOR INFORMATION.
- (F) TAPPING SLEEVE, VALVE AND BLOCKING ASSEMBLY SEE SPECIFICATIONS.
- (G) BORE & JACK STEEL ENCASEMENT PIPE, SEE DETAIL SHEET C905.
- (H) ____ REDUCED PRESSURE BACKFLOW ASSEMBLY (RPA) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C905. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (J) FIRE DEPARTMENT CONNECTION, SEE DETAIL SHEET C905.
- (K) POST INDICATOR VALVE W/ TAMPER SWITCH, SEE DETAIL SHEET C905 AND SPECIFICATIONS. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (L) DROP SANITARY SEWER CLEANOUT, TYP. SEE DETAIL SHEET C902.
- (M) 6-IN WILKINS MODEL 375A REDUCED PRESSURE BACKFLOW DETECTOR ASSEMBLY (RPDA) OR EQUAL WITHIN HEATED ENCLOSURE. SEE DETAIL SHEET C905. PROVIDE TAMPER SWITCHES ON ABOVE-GROADE VALVES. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (N) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C904.
- (O) ROOF DRAIN CLEANOUT, TYP. SEE DETAIL SHEET C902.
- (P) CONNECT TO ROOF LEADER WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON ARCHITECTURAL/PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION AND INVERTS.
- (Q) FLOOR DRAIN TO CAPTURE CONDENSATE LINE. REFER TO HVAC DRAWINGS FOR LOCATION OF CONDENSATE LINE EXITING THE BUILDING.
- (R) SEE MECH AND ELEC DRAWINGS FOR LAYOUT AND INFORMATION FOR THE MECHANICAL YARD.
- (S) TIE TO EXISTING SANITARY SEWER MANHOLE PER INSIDE DROP MANHOLE DETAIL. SEE SHEET C902.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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SEALS

Digitally signed by Corinne Wilson
Date: 2025.05.02 12:34:15-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 044600 ENGINEER CORINNE E. WILSON

DKA JOB NUMBER

Project Number

REVISIONS

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PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED

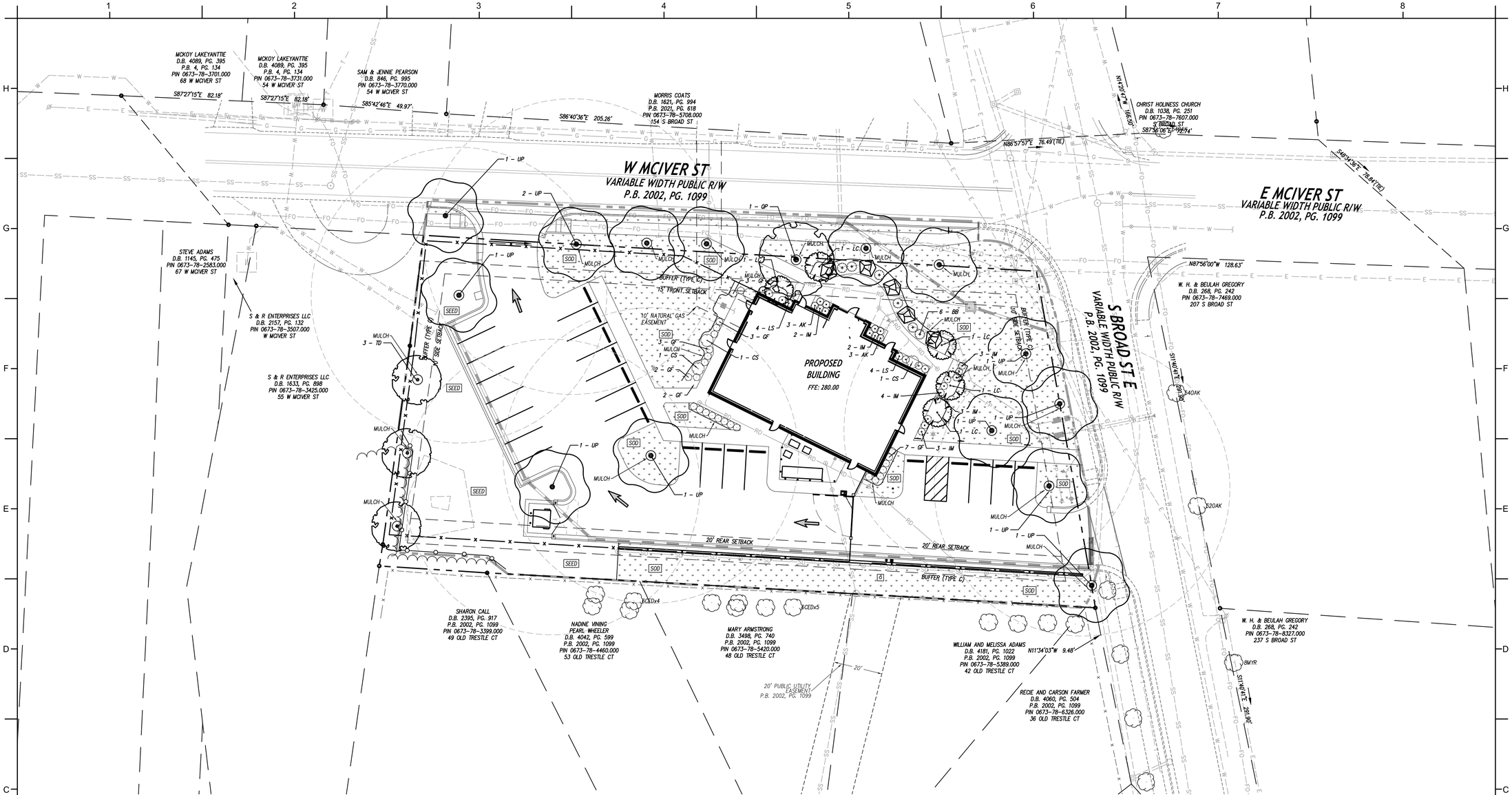
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SHEET TITLE

UTILITY PLAN

C501



LANDSCAPE GENERAL NOTES

1. LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
2. VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
3. ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
4. ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4-1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED.
5. ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3-IN OF DYED BROWN DESIGNER (PALLETIZED) MULCH SHALL BE USED AROUND ALL PLANTINGS WITH THE EXCEPTION OF BUFFER PLANTINGS. BUFFER PLANTINGS MAY USE TRIPLE SHREDDED HARDWOOD. CONFIRM WITH LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO INSTALLATION.
6. APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
7. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
8. DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS). SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
9. CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
   - 9.1. REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION.
   - 9.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
   - 9.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
   - 9.4. ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
10. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTON PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
11. LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN/SOD AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL WATERING INFORMATION.
12. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDED/SOD AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE RE-GRADED AND RE-SEEDED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
13. SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
14. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING, IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
15. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
16. GENERAL LAWN AREAS SHALL BE SEEDED WITH SUNSTAR BERMUDA SEED. SOD AREAS SHALL BE TIF-TUF BERMUDA. 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
17. SEE PLANTING PLAN FOR LIMITS.
18. ALL 3:1 SLOPES OR GREATER SHALL RECEIVE EROSION CONTROL MATTING. REFER TO PLANTING PLANS FOR STABILIZATION REQUIREMENTS.
19. ALL FOUNDATION SHRUBS TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. ALL SHADE TREES SHALL BE A MINIMUM DISTANCE OF 15-FT FROM BUILDING ROOF EDGE TO CENTER OF TREE. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
20. INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

PLANTING SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES						
	LC	5	Lagerstroemia indica 'Carolina Beauty' Carolina Beauty Crape Myrtle	B&B		
	QP	1	Quercus phellos Willow Oak	B&B, STRAIGHT TRUNK	2.5"	10' HT MIN.
	TD	3	Taxodium distichum Bald Cypress	B&B	2.5"	10' HT MIN.
	UP	14	Ulmus parvifolia Lacebark Elm	B&B, STRAIGHT TRUNK	2.5"	10-12'
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	-	SIZE
SHRUBS						
	AK	6	Abelia x grandiflora 'Kaleidoscope' Kaleidoscope Glossy Abelia	N/A		18"-24" HT.
	BB	6	Buxus microphylla japonica 'Gregem' Baby Gem™ Boxwood	N/A		12"-15" HT.
	CS	4	Camellia sasanqua Sasanqua Camellia	N/A		
	GF	25	Gardenia jasminoides 'Frostproof' Frostproof Gardenia	N/A		12"-15" HT.
	IM	14	Ilex glabra 'Gem Box' Gem Box Inkberry Holly	N/A		12"-15" HT.
	LS	8	Ligustrum sinense Chinese Privet	N/A		18" HT MIN.
GROUND COVERS						
		12,184 sf	TifTuf™ Bermudagrass	SOD		

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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PROJECT INFORMATION

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT
REG. NO. 1047
CLH DESIGN, P.A.
CHRISTOPHER L. HOWARD
05/02/25

DKA JOB NUMBER
Project Number

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Plot Date: 04/10/2025

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SHEET TITLE

LANDSCAPE PLAN

C601

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site

and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This general permit as well as the certificate of coverage, after it is received.

(b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

(c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(b) Anticipated bypasses and unanticipated bypasses.

(c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state-impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 3(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA Environmental Quality

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

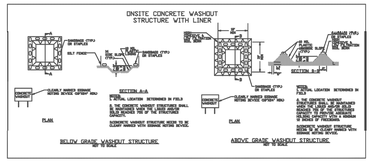
1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

NORTH CAROLINA Environmental Quality

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

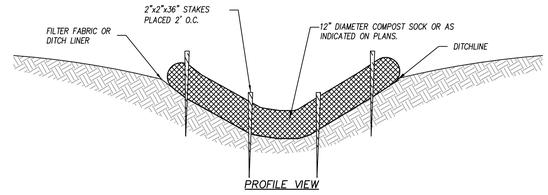
1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19



NOTES:
1. *MATERIALS TO BE FILTREXX OR APPROVED EQUAL.*
2. *ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.*
3. *COMPOST SOCK MAY BE USED AS CHECK DAMS IN DITCHES NOT EXCEEDING 3 FEET IN DEPTH.*
4. *PRIOR TO SOCK INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION.*
5. *2"X2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACED AT A MAXIMUM INTERVAL OF 2 FEET. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.*
6. *THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.*
7. *CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.*
8. *CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.*

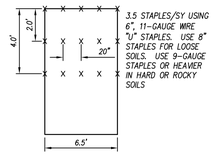
MAINTENANCE NOTES:
1. *INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).*
2. *SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.*
3. *THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.*
4. *IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.*
5. *THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.*
6. *THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.*

TEMPORARY COMPOST SOCK CHECK DAM

N.T.S.

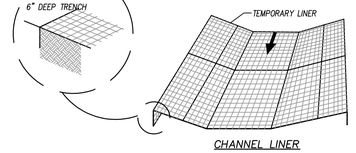
DIVISION DITCH SCHEDULE

CHANNEL	BOTTOM WIDTH (FT)	SIDE SLOPE (H:V)	CHANNEL GRADE	CHANNEL LENGTH	PERM. LINING	TEMP. LINING	MIN. TOP WIDTH OF LINING (FT)	RIPRAP DEPTH (IN)
1	2	2:1	1.0%	265 LF	GRASS	EXCELSIOR	6	N/A

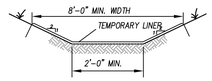


TEMPORARY MAT STAPLE PATTERN
NTS

MATTING INSTALLATION NOTES:
1. *INSTALL TEMPORARY CHANNEL MATTING IN ALL DIVERSION SWALES OR OTHER GRASSED AREAS OF CONCENTRATED STORMWATER FLOW DURING BOTH TEMPORARY AND PERMANENT GRASS ESTABLISHMENT. ALL TEMPORARY MATTING SHALL BE EXCELSIOR MATTING UNLESS NOTED OTHERWISE ON THE EROSION CONTROL PLAN.*
2. *SEE SPECIFICATIONS FOR TEMP. LINING REQUIREMENTS.*
3. *PREPARE SOIL BEFORE INSTALLING MATS OR NETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.*
4. *BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE NET OR MAT IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.*
5. *ROLL CENTER MAT OR NET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.*
6. *PLACE MAT OR NET END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE.*
7. *FULL LENGTH EDGE OF MAT OR NET AT TOP SIDE SLOPES SHALL BE ANCHORED IN 6" DEEP TRENCH AFTER STAPLING.*
8. *MATS OR NETS SHALL BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.*
9. *THE TERMINAL END OF THE MAT OR NET MUST BE ANCHORED IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.*

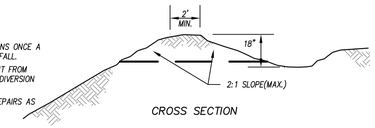


CONSTRUCTION SPECIFICATIONS:
1. *REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIALS.*
2. *ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.*
3. *ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT.*
4. *PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGRADING AND CLEANOUT.*
5. *VEGETATE THE RIDGE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.*
6. *APPLY SOLID PLASTIC (BLACK, 20 MIL) LINING ON SURFACE OF DIVERSION DITCH ON ANY SLOPES GREATER THAN 10% ENTERING BASINS/PONDS.*



TEMP. PLASTIC LINING
NTS

MAINTENANCE NOTES:
1. *INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL.*
2. *IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR DIVERSION DITCH.*
3. *INSPECT AND MAKE TIMELY REPAIRS AS NEEDED.*



TEMPORARY DIVERSION DITCH / BERM

N.T.S.

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
RALEIGH, NC 27605
919.833.3737
www.daviskane.com

BOBBITT

CLH DESIGN, P.A.
400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-6716
Fax: (919) 319-7516
LA: C-106
PE: C-1595

PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

Digitally signed by Corinne Wilson
Date: 2025.05.02 12:34:57-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 044600 ENGINEER CORINNE E. WILSON

DKA JOB NUMBER

Project Number

REVISIONS

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PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED

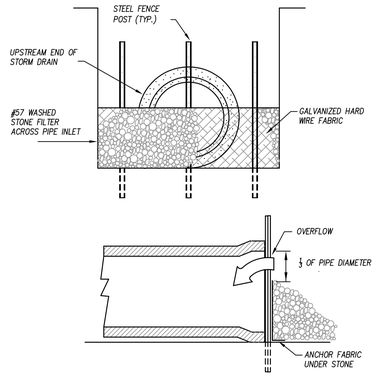
PERMIT SET

05/02/2025

SHEET TITLE

EROSION CONTROL DETAILS

C701

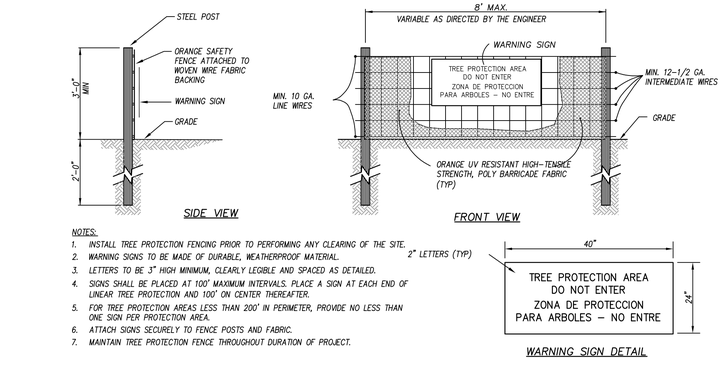


MAINTENANCE NOTES:

1. ALL OPEN STORM DRAIN PIPES SHALL BE PROTECTED AFTER STOPPAGE OF WORK EACH DAY AS ILLUSTRATED.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF AND THE TRENCH BOTTOM REGRADED AND COMPACTED IN ACCORDANCE w/ SPECIFICATIONS PRIOR TO CONTINUANCE OF LAYING PIPE.

PROTECTION OF STORM DRAIN UNDER CONSTRUCTION

N.T.S.



SIDE VIEW

FRONT VIEW

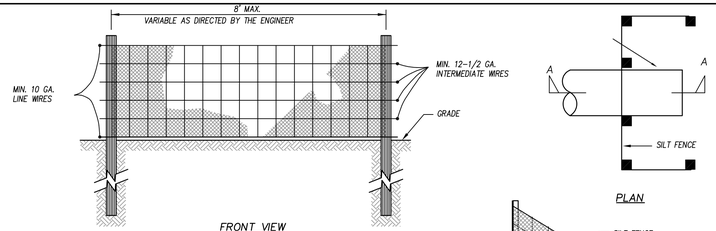
NOTES:

1. INSTALL TREE PROTECTION FENCING PRIOR TO PERFORMING ANY CLEARING OF THE SITE.
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
3. LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
4. SIGNS SHALL BE PLACED AT 100' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 100' ON CENTER THEREAFTER.
5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.

WARNING SIGN DETAIL

TEMPORARY TREE PROTECTION FENCE

N.T.S.



FRONT VIEW

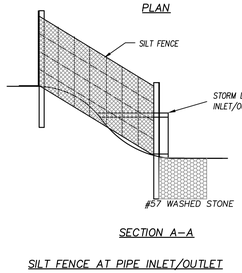
INSTALLATION NOTE:

USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:

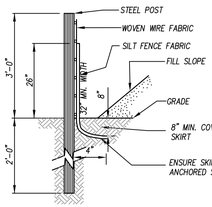
1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. REPAIR SILT FENCE FAILURES WITH NO. 57 WASHED STONE BERM.

PLAN

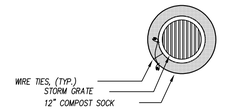


SECTION A–A

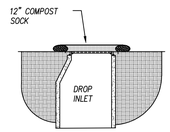
SILT FENCE AT PIPE INLET/OUTLET



SIDE VIEW



DROP INLET PLAN



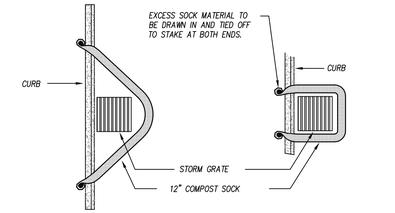
DROP INLET SECTION

NOTES:

1. MATERIALS TO BE FILTREXX OR APPROVED EQUAL.
2. ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
3. 2"X2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACES AT A MAXIMUM INTERVAL OF 4 FEET. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
4. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS OR SAND BAGS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
5. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.

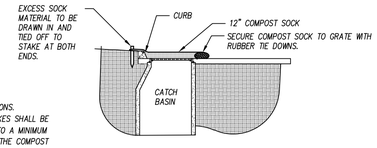
MAINTENANCE NOTES:

1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
2. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
3. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
4. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
5. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
6. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.



CURBSIDE OPTION "A" PLAN

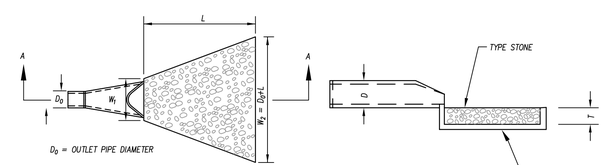
CURBSIDE OPTION "B" PLAN



CURBSIDE SECTION

STANDARD TEMPORARY SILT FENCE

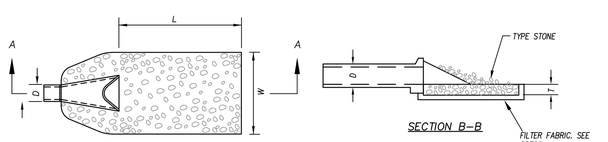
N.T.S.



PLAN

(OUTLET TO FLAT AREA WITH NO WELL DEFINED CHANNEL)

SECTION A–A



PLAN

(OUTLET TO WELL DEFINED CHANNEL)

SECTION B–B

MAINTENANCE NOTES:

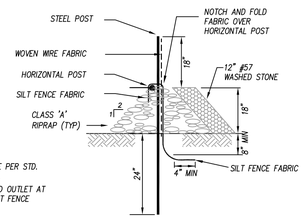
1. RIP RAP OUTLET STRUCTURES TO BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT.
2. REPAIR DISLODGED STONES TO DESIGN DIMENSIONS IMMEDIATELY.
3. IF MORE SUBSTANTIAL DAMAGE OCCURS, NOTIFY ENGINEER TO DETERMINE A REPAIR SOLUTION.

NOTES:

1. TOP OF RIP RAP AT DOWNSTREAM END OF APRON SHALL BE FLUSH WITH NATURAL GRADE OF THE RECEIVING CHANNEL.
2. VEGETATE ALL DISTURBED AREAS WITH VEGETATION IMMEDIATELY AFTER INSTALLATION.
3. SEE EROSION CONTROL PLAN FOR APRON DIMENSIONS.

TEMPORARY COMPOST SOCK INLET PROTECTION

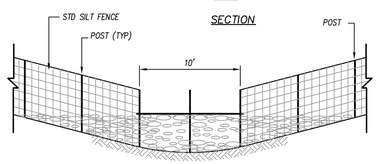
N.T.S.



NOTES:

1. INSTALL SILT FENCE PER STD. SILT FENCE DETAIL.
2. LOCATE REINFORCED OUTLET AT LOW POINTS OF SILT FENCE BARRIER.

SECTION



ELEVATION

MAINTENANCE NOTES:

1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

GRAVEL CONSTRUCTION ENTRANCE

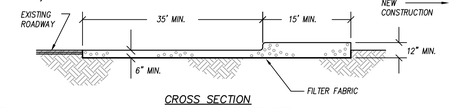
N.T.S.

CONSTRUCTION NOTES:

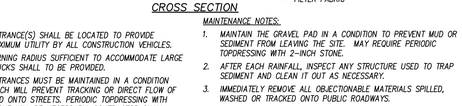
1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. MAY REQUIRE PERIODIC TOPDRESSING WITH 2–INCH STONE.
2. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY.
3. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS.

CONSTRUCTION SPECIFICATIONS:

1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR SUITABLE OTHER OUTLET.
4. USE GEOTEXTILE FABRIC TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

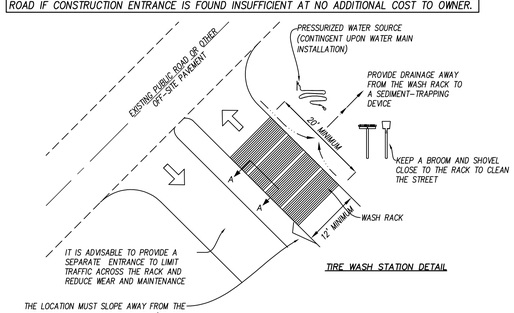


PLAN

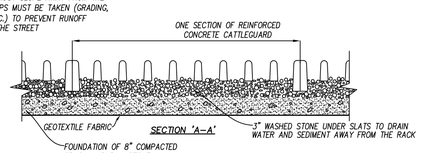


CROSS SECTION

CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.



TIRE WASH STATION DETAIL



SECTION 'A–A'

OUTLET PROTECTION

N.T.S.

REINFORCED SILT FENCE OUTLET

N.T.S.

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
RALEIGH, NC 27605
919.833.3737
www.daviskane.com

BOBBITT

CLH DESIGN, P.A.
400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-6716
Fax: (919) 319-7516
LA: C-106
PE: C-1095

PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

Digitally signed by Corinne Wilson
Date: 2025.05.02 12:35:43-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 044600 ENGINEER CORINNE E. WILSON

DKA JOB NUMBER

Project Number

REVISIONS

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PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED

PERMIT SET

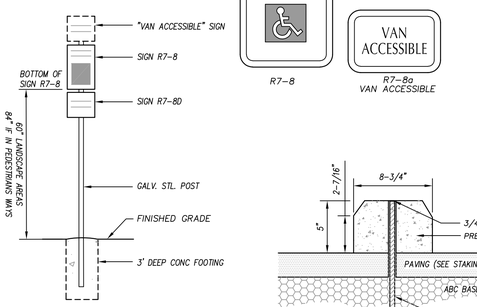
05/02/2025

SHEET TITLE

EROSION CONTROL DETAILS

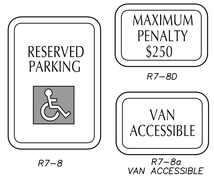
C702

SEE PAVEMENT MARKING PLANS FOR ADDITIONAL INFORMATION REGARDING PAVEMENT MARKINGS AND SIGNAGE

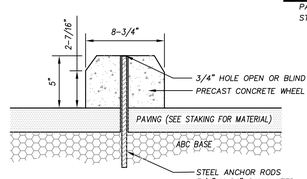


NOTE: MAXIMUM PENALTY ($250) IS ESTABLISHED BY LEGISLATURE VIA GENERAL STATUTE 20-37.6

ALL SIGNS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SPECIFICATIONS AND REQUIREMENTS

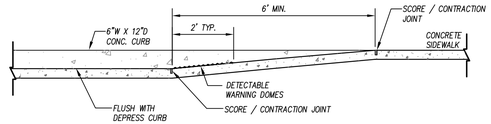


ACCESSIBLE PARKING SIGNAGE

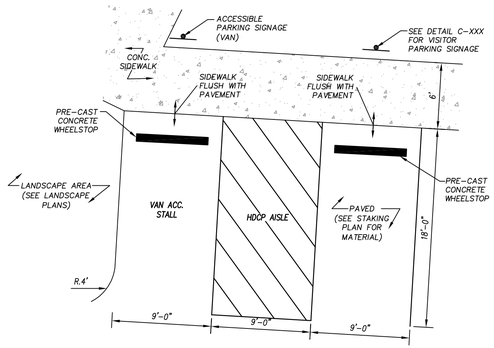


SECTION VIEW

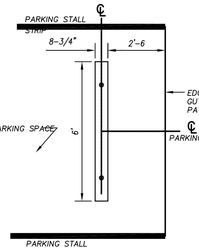
PRE-CAST CONCRETE WHEELSTOPS



SECTION VIEW



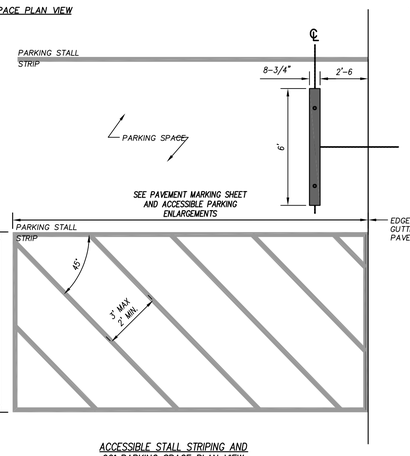
PLAN ENLARGEMENT



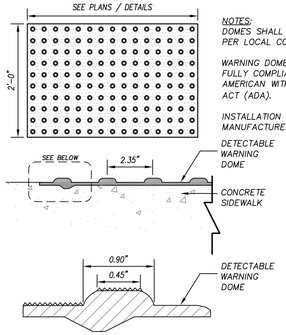
90° PARKING SPACE PLAN VIEW

W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0'*
6'	0.0'	6.8'	6.8'	6.0'**
7'	0.0'	7.8'	7.3'	6.5'**
8'	0.0'	8.8'	7.3'	6.5'**
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

B = X-(A+9")
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPE 0.04.



ACCESSIBLE STALL STRIPING AND 90° PARKING SPACE PLAN VIEW

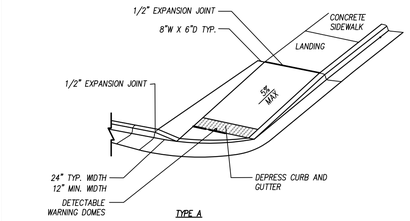


DETECTABLE WARNING DOMES

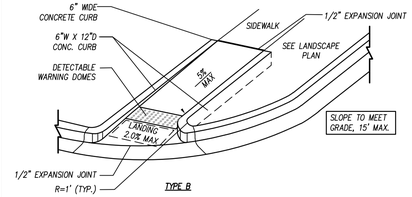
NOTES:
DOMES SHALL BE YELLOW OR PER LOCAL CODE.

WARNING DOMES MUST BE FULLY COMPLIANT WITH THE AMERICAN WITH DISABILITIES ACT (ADA).

INSTALLATION PER MANUFACTURE.



TYPE A



TYPE B

RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)

THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.

NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET. SEE GRADING FOR ADDITIONAL INFORMATION.

NO RAMPS OR SIDEWALK SHALL BE LESS THAN 48" WIDE. REFER TO STAKING SHEETS FOR ALL SIDEWALK AND RAMP WIDTHS.

ALL CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

EXPANSION JOINTS SHALL BE INSTALLED FULL DEPTH WHEN EVER IT ABUTS EXISTING OR CURB AND GUTTER

CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO STREET.

NO RAMP SHALL EXCEED 8.33% (12:1) SLOPE.

CROSS SLOPE SHALL BE MAX 2%

ALL RAMPS SHALL HAVE A 4' MIN. LANDING WITH A MAX SLOPE OF 2% WERE PEDESTRIANS PERFORM TURNING. ENSURE TO PITCH TOWARDS GUTTER.

DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL INFORMATION.

DOMES SUBMITTAL SHALL BE SUBMITTED TO DESIGN TEAM PRIOR TO INSTALLATION. COLOR SHALL BE YELLOW UNLESS OTHERWISE NOTED.

ADA CURB RAMP N.T.S.

NOTES:
RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)

THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.

NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET. SEE GRADING FOR ADDITIONAL INFORMATION.

NO RAMPS OR SIDEWALK SHALL BE LESS THAN 48" WIDE. REFER TO STAKING SHEETS FOR ALL SIDEWALK AND RAMP WIDTHS.

ALL CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

EXPANSION JOINTS SHALL BE INSTALLED FULL DEPTH WHEN EVER IT ABUTS EXISTING OR CURB AND GUTTER

CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO STREET.

ALL RAMPS SHALL HAVE A 4' MIN. LANDING WITH A MAX SLOPE OF 2% WERE PEDESTRIANS PERFORM TURNING. ENSURE TO PITCH TOWARDS GUTTER.

DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

ALL DIMENSIONS ARE FROM FACE OF CURB

ACCESSIBLE STALL WIDTH AND LENGTH AS SHOWN. NO ACCESSIBLE STALL SHALL BE LESS THAT 8' WIDE.

ALL VAN ACCESSIBLE PARKING STALLS ARE AS SHOWN. NO ACCESSIBLE VAN STALL SHALL BE LESS THAT 8' WIDE WITH AISLE BEING NOT LESS THAN 8' WIDE.

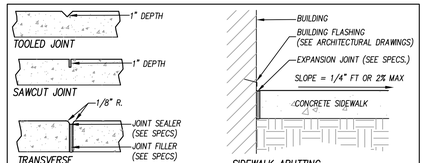
CONTRACTOR IS RESPONSIBLE FOR MARKING OUT ACCESSIBLE STALL TO ENSURE THEY MEET CODE. ANY DEFICIENCIES SHALL BE REPAIR AT THE CONTRACTORS EXPENSE.

NO RAMP SHALL EXCEED 8.33% (12:1) SLOPE.

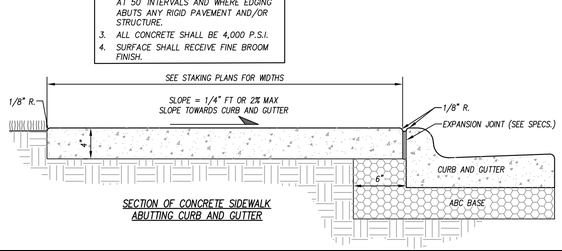
CROSS SLOPE SHALL BE MAX 2%

PARKING STALL AND ACCESSIBLE AISLE SHALL BE WHITE ON ASPHALT SURFACES AND BLUE ON CRETE SURFACES

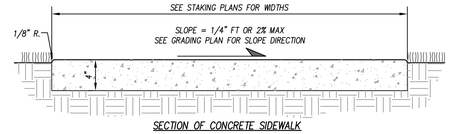
ACCESSIBLE PARKING N.T.S.



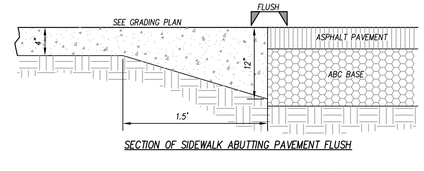
GENERAL NOTES:
1. PROVIDE GROOVE CONTROL JOINT 1.5-IN DEEP WITH 1/8-IN RADII IN EDGING AT 10' INTERVALS UNLESS INDICATED OTHERWISE.
2. PROVIDE 1/2-IN WIDE EXPANSION JOINT AT 50' INTERVALS AND WHERE EDGING ABUTS ANY RIGID PAVEMENT AND/OR STRUCTURE.
3. ALL CONCRETE SHALL BE 4,000 P.S.I.
4. SURFACE SHALL RECEIVE FINE BROOM FINISH.



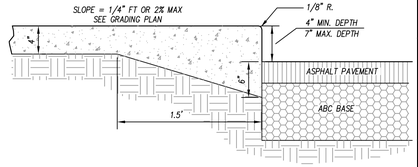
SECTION OF CONCRETE SIDEWALK ABUTTING CURB AND GUTTER



SECTION OF CONCRETE SIDEWALK

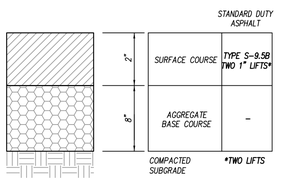


SECTION OF SIDEWALK ABUTTING PAVEMENT FLUSH



SECTION OF SIDEWALK ABUTTING PAVEMENT

CONCRETE SIDEWALK N.T.S.



SEE SPECIFICATIONS FOR PROOFROLLING, COMPACTION & TESTING REQUIREMENTS.

DETAIL IS FOR ON-SITE PAVING OPERATIONS ONLY.

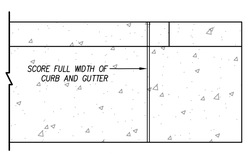
THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.

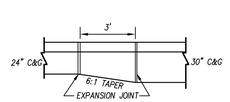
THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

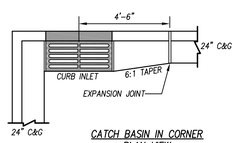
PAVEMENT SECTIONS N.T.S.



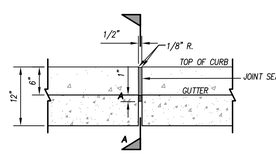
PLAN



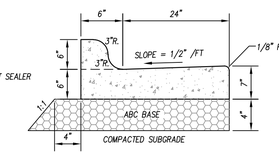
24" TO 30" G&G TRANSITION PLAN VIEW



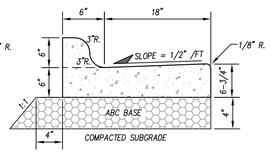
CATCH BASIN IN CORNER PLAN VIEW



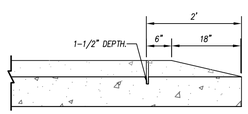
CONTRACTION JOINT



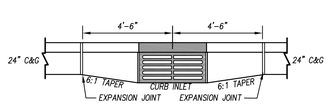
SECTION A-A 30" CURB & GUTTER



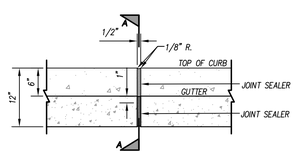
24" CURB & GUTTER SECTION A-A



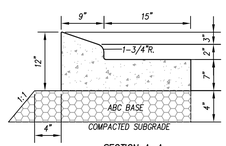
FRONT
STANDARD METHOD OF ENDING CURB AND GUTTER



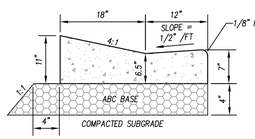
CATCH BASIN ALONG GUTTER PLAN VIEW



TRANSVERSE EXPANSION JOINT



SECTION A-A MEDIAN CURB & GUTTER



SECTION A-A 30" VALLEY CURB

CURB AND GUTTER NOTES:
1. ALL CONCRETE SHALL BE 4,000 P.S.I. @ 28 DAYS
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, SPACING MAY BE INCREASED TO 15' IF MACHINE IS USED.
3. CONTRACTION JOINTS SHALL BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2" SHALL BE OBTAINED.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' MAX. INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
5. ALL JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER.
6. SEE SPECIFICATION SECTION 32 13 13 FOR ADDITIONAL INFORMATION

CONCRETE CURB & GUTTER N.T.S.

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
RALEIGH, NC 27605
919.833.3737
www.daviskane.com

BOBBITT

CLH DESIGN, P.A.
400 Regency Forest Drive
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PE: C-1595

PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT NO. 1047 TIMOTHY DOWNING SMITH

DKA JOB NUMBER
Project Number

REVISIONS

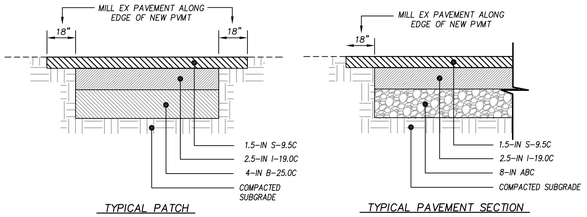
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PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED
PERMIT SET
05/02/2025

SHEET TITLE
SITE DETAILS

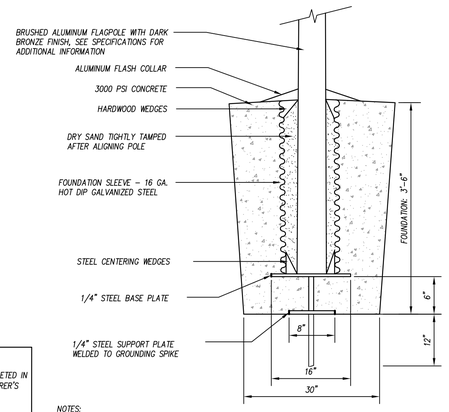
C801



TYPICAL PATCH

TYPICAL PAVEMENT SECTION

ASPHALT PATCH N.T.S.



NOTES:

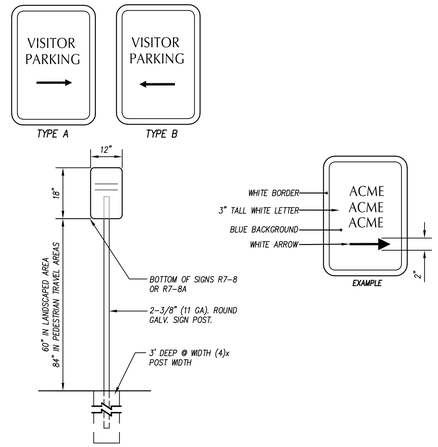
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

30' TALL USA FLAG POLE

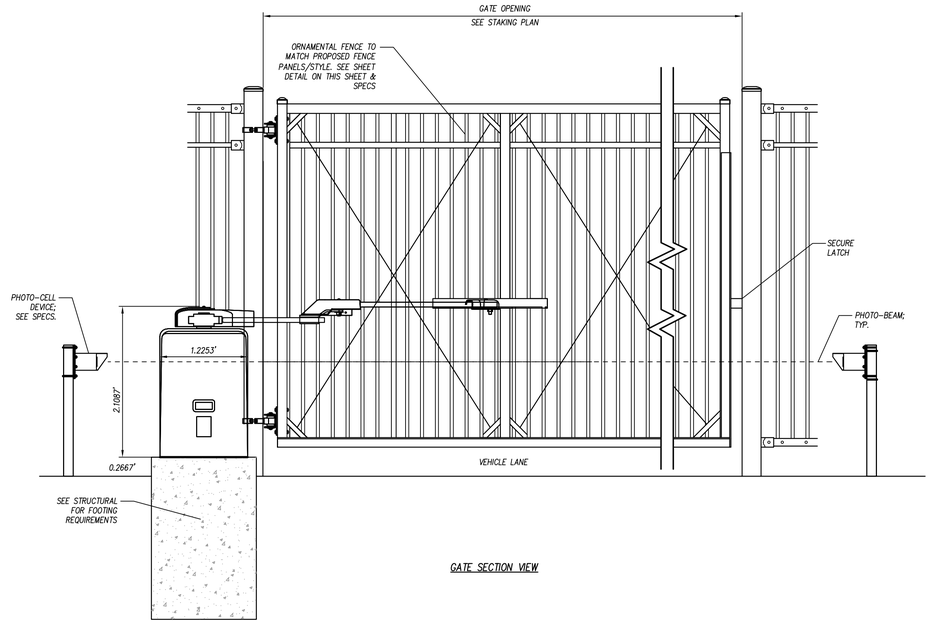
NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. FLAGPOLE SHALL BE SEAMLESS, TAPERED ALUMINUM TUBING, DARK BRONZE FINISH, MANUFACTURER'S STANDARD 6 ' BUTT AND 3–1/2 " TOP DIAMETER. PROVIDE COMPLETE WITH INTERNAL CAM CLEAT SYSTEM, INTERNAL HAYLARD, TRUCK, COLLAR AND 8 " DIAMETER LED BEACON DOWNLIGHTING. INSTALL PER MANUFACTURER.

FLAG POLE BASE N.T.S.



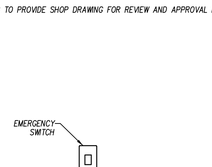
SPECIAL PARKING SIGNAGE N.T.S.



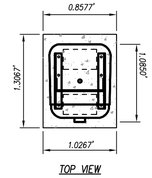
GATE SECTION VIEW

MOTORIZED GATE NOTES:

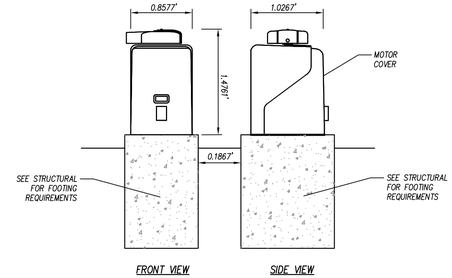
1. MOTORIZED (VEHICULAR SWING) GATE TO INCLUDE (TWO) GATE OPERATOR (MODEL NO. 6524 BY 'DKS DOORKING' OR APPROVED EQUAL) WITH THE FOLLOWING COMPONENTS:
   - DIGITAL KEYPAD (MODEL 1504 BY DKS DOORKING OR APPROVED EQUAL).
   - LONG RANGE AVI PROXIMITY CARD READER (MODEL 1815–350 BY DKS DOORKING OR APPROVED EQUAL).
   - PROXPLUS CARD READER (MODEL 1815–684 BY DKS DOORKING OR APPROVED EQUAL).
   - MOUNTING POST TO ACCOMMODATE DIGITAL KEYPAD, LONG RANGE AVI & PROXPLUS CARD READER(MODEL 1200–037 BY DKS DOORKING OR APPROVED EQUAL).
   - SMART GATE CONTROLLER (MODEL 1800–500 BY DKS DOORKING OR APPROVED EQUAL).
   - FOUR (TWO PER MOTOR), 12 VOLT, 18 AMP/HR BATTERY FOR EXTENDED BACK–UP POWER (MODEL P/N 1801–004 BY DKS DOORKING OR APPROVED EQUAL).
2. SWING GATE PANEL TO MATCH OTHER PROPOSED ORNAMENTAL FENCING & GATES (MONTAGE PLUS CLASSIC BY "AMERISTAR" OR APPROVED EQUAL). REFER TO SPECIFICATION SECTION 323119 FOR ADDITIONAL INFORMATION.
3. ALL MATERIALS AND COMPONENTS SHALL BE INSTALLED PER MANUFACTURES RECOMMENDATIONS. THIS INCLUDES BUT NOT LIMITED TO PANELS, FOOTINGS AND OTHER FENCE HARDWARE. CONTRACTOR SHALL FOLLOW ASSEMBLY AND INSTALLATIONS GUIDELINES.
4. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
5. EMERGENCY SWITCH (KNOXBOX GATE & KEY SWITCH W/ MOUNTING PLATE MODEL 3502 BY KNOXBOX OR APPROVED EQUAL). THE MECHANISM TO BE COMPLETE WITH A SURFACE MOUNTED BOX TO ACCOMMODATE THE RECESSED MOUNTED EMERGENCY SWITCH AND ALL ASSOCIATED POWER COMPONENTS INCLUDING WIRING AND SECURELY ATTACHED TO A STANDARD MOUNTING POST (MODEL 1200–045 BY DKS DOORKING OR APPROVED EQUAL). SWITCH TO INCLUDE A 'FIRE DEPT.' LABEL (MODEL 1002 BY KNOXBOX OR APPROVED EQUAL) ATTACHED TO THE MOUNTING PLATE FOR VISIBILITY PURPOSES. COORDINATE FINAL LOCATION WITH OWNER/FIRE DEPARTMENT/FIRE MARSHAL PRIOR TO INSTALLATION.
6. CONTRACTOR TO PROVIDE SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO ORDERING & INSTALLATION.



EMERGENCY SWITCH SECTION VIEW



TOP VIEW



FRONT VIEW SIDE VIEW

MOTORIZED SWING GATE (DOUBLE – ORNAMENTAL STEEL) N.T.S.

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS



DKA JOB NUMBER
Project Number

REVISIONS

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PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED
PERMIT SET
05/02/2025

SHEET TITLE
SITE DETAILS

C802

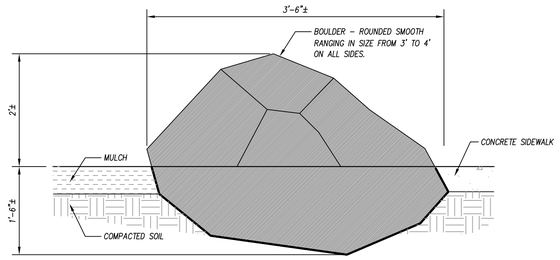
BOULDERS

N.T.S.

BOULDER SOURCE: THE STONE CENTER. "SHAWNEE MOUNTAIN GARDEN BOULDER" OR APPROVED EQUAL. LANDSCAPE ARCHITECT TO TAG BOULDERS IN STONE YARD PRIOR TO PURCHASE.

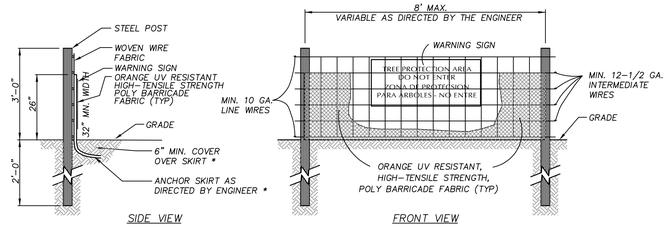
LANDSCAPE ARCHITECT SHALL NEED 48" HOURS NOTICE FOR TAGGING.

PLEASE ENSURE 48 HOUR NOTICE FOR ALL FIELD PLACEMENT OF BOULDERS TO LANDSCAPE ARCHITECT TO FIELD LOCATED.



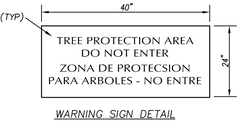
TREE PROTECTION FENCE

N.T.S.



NOTES:

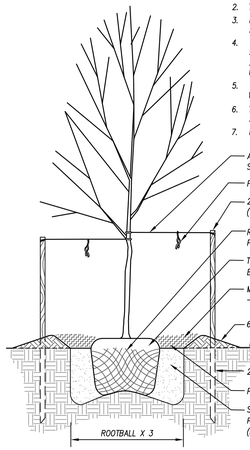
1. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
2. LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS.
4. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.
5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
8. ADDITIONAL SIGNS MAY BE REQUIRED BY THE CITY OF RALEIGH INSPECTION DEPARTMENT BASED ON ACTUAL FIELD CONDITIONS.
9. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.



WARNING SIGN DETAIL

FOR TREE PROTECTION ONLY

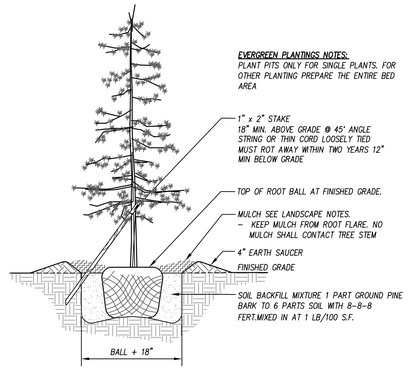
TREE PLANTING



TREE PLANTING NOTES:

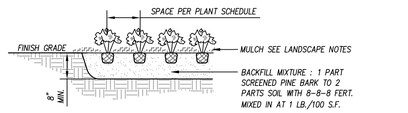
1. SEE SPECIFICATION SECTION 329000 FOR ADDITIONAL INFORMATION NOT NOTED ON DETAILS
2. TREE PLANTING TO MEET ALL LOCAL CODE/RULES.
3. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
4. IF TREE WRAPS ARE PROVIDED ENSURE TO START AT SECOND BRANCH. TIE SECURELY AT TOP, BOTTOM, AND AT 2' INTERVALS. ALL TREE WRAPS TO BE REMOVED UPON PROJECT FINAL COMPLETION.
5. PLEASE REFER TO SPEC 329000 SECTION FOR ALL WARRANTY REQUIREMENTS.
6. TREE STAKING TO BE PROVIDED ON 3:1 SLOPES AND/OR AREAS OF HIGH WINDS.
7. DO NOT PRUNE OR CUT LEADERS.

EVERGREEN PLANTING

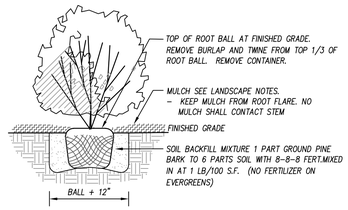


EVERGREEN PLANTINGS NOTES:
PLANT PITS ONLY FOR SINGLE PLANTS. FOR OTHER PLANTING PREPARE THE ENTIRE BED AREA

GROUND COVER PLANTING



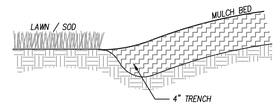
SHRUB PLANTING



MULCH NOTES:
SEE LANDSCAPE NOTES ON LANDSCAPE PLANT FOR TYPE OF MULCH.

EDGE TO BE APPLIED TO ALL PLANTING BEDS.

PLANTING BED EDGE

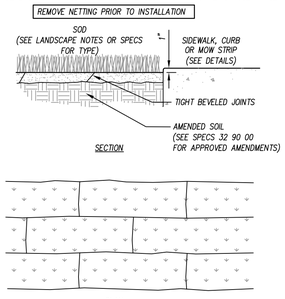


SOD MAINTENANCE NOTES:

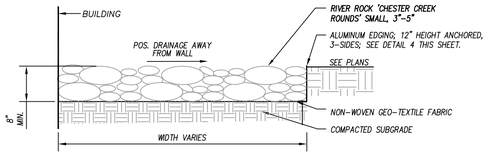
1. CONTRACTOR SHALL BE RESPONSIBLE FOR SOD MAINTENANCE UNTIL FINAL COMPLETION.
2. PLEASE REFER TO SPEC 32 90 00 FOR ALL SOD INSTALLATION REQUIREMENT, WARRANTEES AND MAINTENANCE TILL FINAL COMPLETION
3. CONTRACTOR MUST MEET 95% SOD ESTABLISHMENT FOR FINAL COMPLETION. REFER TO SPEC 32 90 00 SECTION 1.9. & 1.12 FOR ALL APPLICABLE REQUIREMENTS.
4. SOD INSTALLED INSTALLED OUTSIDE GROWING SEASON WILL NEED TO MEET THE FOLLOWING SECTION 329000 SECTIONS 1.9 & 1.12
5. PLEASE REFER TO SPEC 329000 SECTION 1.10 FOR ALL WARRANTY REQUIREMENTS.
6. CONTRACTOR IS RESPONSIBLE FOR REGULAR MOWING AND FOR FURNISHING AND APPLYING ADEQUATE WATER TO THE INSTALLED SOD UNTIL PROJECT FINAL COMPLETION BUT NO LESS THAN 4–WEEKS FOLLOWING SOD INSTALLATION
7. WATERING SHALL BE MONITORED TO ENSURE PROPER RATES ARE APPLIED. OVER–WATERING SHALL BE AVOIDED.
8. DEAD OR DYING SOD SHALL BE REPLACED PRIOR TO OWNER'S ACCEPTANCE.

REMOVE NETTING PRIOR TO INSTALLATION

SOD INSTALLATION



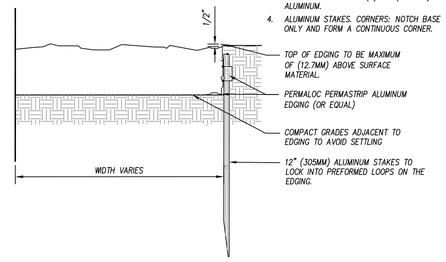
DECORATIVE STONE BAND AT BUILDING



EDGING NOTES:

1. INSTALL PER MANUFACTURER'S
2. 16'–0" SECTIONS TO INCLUDE (8) 12" (305 MM)
3. SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM.
4. ALUMINUM STAKES. CORNERS: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER.

ALUMINUM EDGING



PLANTING / LANDSCAPING DETAIL

N.T.S.

TURF, SOD AND SEEDBED PREPARATION:

1. CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
2. DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON–SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL–SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATION SECTION 329000.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL–PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
6. SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSED AREAS TO BECOME EXCESSIVELY DRY.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
9. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.

LIME AND FERTILIZATION SCHEDULE:

1. APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 500 LB/ACRE 10–10–10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION.
2. CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

SURFACE STABILIZATION REQUIREMENTS:

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. USE EXCELSIOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
4. APPLY 4000 LB/ACRE(2 TONS LB/AC) GRAIN STRAW OVER SEEDED AREAS AND ANCHOR STRAW CRIMPING WITH HAND OR MECHANICAL CRIMPER 8" MAX. SPACING, ASPHALT TACKING OR OTHER APPROVED METHOD. ASPHALT TACKING SHALL BE 400 GAL/ACRE (9 GAL/1000 SF).
5. MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.
6. SEE NCDEQ GROUND STABILIZATION REQUIREMENTS FOR ADDITIONAL INFORMATION

TEMPORARY SEEDING SCHEDULE (JUNE 1ST TO FEBRUARY 28TH)

DATE	TYPE	SEEDING RATE
AUG 15 – APR 15	3–WAY TALL FESCUE BLEND AND CEREAL RYE (GRAIN)	10 LBS PER 1,000/SF 35 LBS/ACRE
APR 15 – AUG 15	3–WAY TALL FESCUE BLEND AND GERMAN MILLET *** OR SUDANGRASS (SMALL–STEMMED VAR.) ***	10 LBS PER 1,000/SF 25 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

*** TEMPORARY – RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

PERMANENT SEEDING SCHEDULE

DATE	TYPE	SEEDING RATE
APR 15 – JULY 15 **	HULLED SUNSTAR OR RIVIERA BERMUDA	150 LBS/ACRE *
JULY 15 – AUG 15	SUNSTAR OR RIVIERA BERMUDA	150 LBS/ACRE *

(WATERING AT CONTRACTOR'S EXPENSE)

* OR AS REQUIRED TO ACHIEVE 95% COVERAGE AS DETERMINED ON A PER SQUARE YARD BASIS PRIOR TO SUBSTANTIAL COMPLETION.

** WHEN SEEDING MUST TAKE PLACE OUT–OF–SEASON FOR PERMANENT GRASS, APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.

LAWN MAINTENANCE NOTES:

1. SEE SPEC. SECTION 329000 FOR LAWN MAINTENANCE REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE UNTIL FINAL COMPLETION.
3. LAWN MUST BE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW TO BE ACCEPTED.
4. IF NOT AT 95%, SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE FOLLOWING GROWING SEASON.
5. DO NOT ALLOW NURSE CROP TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE THE PERMANENT SEEDING MAY BE SHADED OUT.

PERMANENT SEEDING SCHEDULE FOR NATURALIZED AREAS

NC PIEDMONT POLLINATOR MIX
NATURALIZED SEED MIX (NOT TO BE MOWED)

DATE	TYPE	PLANTING RATE
MAR 1–JUNE 1 (OR AS RECOMMENDED BY MANUFACTURER)	NC PIEDMONT POLLINATOR MEADOW – ERNMX CUSTOM	15–20 LBS/ACRE OR PER MANUFACTURER'S REQUIREMENTS FOR 90% COVERAGE
	47% SCHIZACHYRIUM SCOPARIUM 'CAMPER'	'CAMPER' LITTLE BLUESTEM
	21% PANICUM ANCEPS, GA ECOTYPE	BEAKED PANICGRASS
	14% ELYMUS VIRGINICUS, AR ECOTYPE	VIRGINIA WILDRYE
	3% RUDBECKIA HIRTA COASTAL PLAIN, NC ECOTYPE	BLACKEYED SUSAN
	3% COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS
	2.5% CHAMAERISTA FASCICULATA, FL ECOTYPE	PARTRIDGE PEA
	2% ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED
	1.8% ERAGROSTIS HIRSUTA, VA ECOTYPE	BIGTOP LOVEGRASS
	1.5% CHAMAERISTA NICITANS, NC ECOTYPE	SENSITIVE PEA
	1% EUPATORIUM COELESTINUM, VA ECOTYPE	MISTFLOWER
	1% MONARDA PUNCTATA, NC ECOTYPE	COASTAL PLAIN BEEBALM
	0.5% RUDBECKIA FULGIDA VAR. FULGIDA, VA ECOTYPE	ORANGE CONEFLOWER
	0.5% BAPTISIA ALBESCENS, NC ECOTYPE	SPIKED WILD INDIGO
	0.5% ASTER SPECTABILIS, NC ECOTYPE	SHOWY ASTER
	0.3% SOLIDAGO NEMORALIS, VA ECOTYPE	GRAY GOLDENROD
	0.1% AMORPHA HERBACEA, NC ECOTYPE	CLUSTERSPIKE FALSE INDIGO
JUNE 1–FEB 28	SEE TEMPORARY SEEDING SCHEDULE	

SOURCE: ERNST SEED CO. (1–800–873–3321) OR EQUAL

REFORESTATION SCHEDULE – (SEEDLINGS)

DATE
MAR 1–JUNE 1
OCT 1–DEC 1

SEEDLINGS TO BE PLACED AT RANDOM. SPACING AT MIN 5' MAX 10' TO BE PLACED IN AREAS ONLY AS INDICTED ON LANDSCAPE SHEETS. ALL SEEDLINGS, SHALL BE TRANSPORTED, STORED AN PLANTED FOLLOWING THE STANDARDS OF THE NORTH CAROLINA FOREST SERVICE TREE PLANTING POCKET GUIDE, 8TH EDITION 2016. SEEDLINGS SHALL BE PLANTED ON A 'SATISFACTORY DAY AS BROADCAST BY THE NORTH CAROLINA FOREST SERVICE.

PLANTING RATE
450 SEEDLING/ACRE

PER/ACRE

30%	PINUS TAEDA	LOBLOLLY PINE
20%	NYSSA SYLVATICA	BLACK GUM
10%	QUERCUS ALBA 'PIEDMONT'	WHITE OAK
10%	QUERCUS RUBRA 'PIEDMONT'	NORTHERN RED OAK
20%	FRAXIMUS AMERICANA	WHITE ASH
10%	LIRODENDRON TULIPIFERA	TULIP TREE

***PROVIDE INVOICE TO LANDSCAPE ARCHITECT UPON PLANTING

SEEDLING SOURCE
NORTH CAROLINA FOREST SERVICE OR EQUAL

PLANTING / LANDSCAPING NOTES

N.T.S.

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Fax: (919) 319–7516
LA: C–106
PE: C–1595

PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS



DKA JOB NUMBER
Project Number

REVISIONS

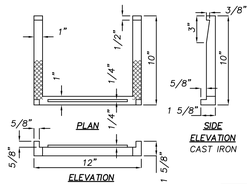
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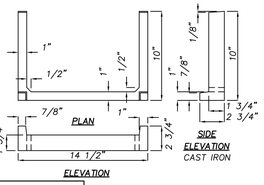
PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED
PERMIT SET
05/02/2025

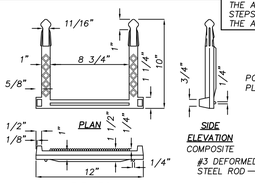
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SITE DETAILS

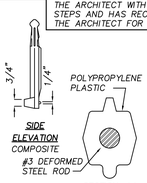
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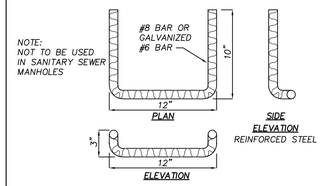




NOTE:
STEPS DIFFERING IN DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED THE ARCHITECT WITH DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED WRITTEN APPROVAL FROM THE ARCHITECT FOR THE USE OF SUCH STEPS.

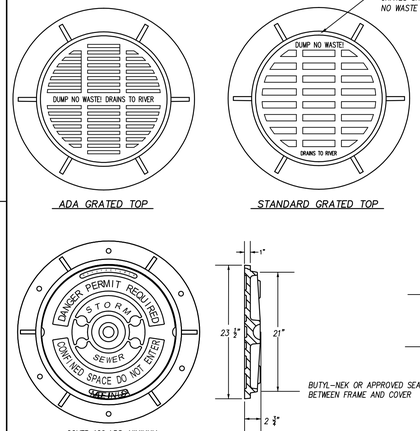




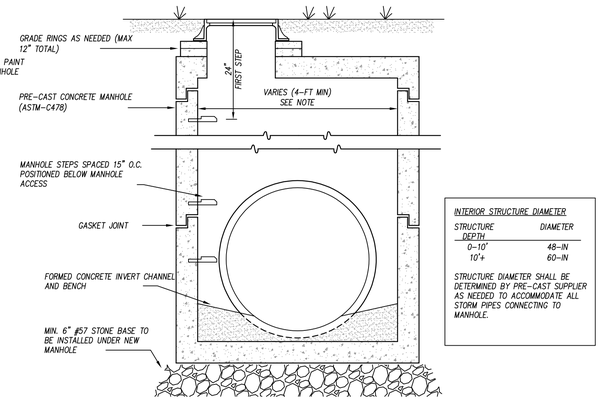


NOTE: ALL STEPS SHALL PROTRUDE 4" FROM INSIDE FACE OF STRUCTURE WALL

DRAINAGE STRUCTURE STEPS N.T.S.



NOTES:
1. ALL MANHOLE FRAMES SHALL BE DOMESTICALLY CAST.
2. FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS. WITHIN PUBLIC ROW AND 160 LBS. WITHIN EASEMENTS.
3. COVER SHALL WEIGH A MINIMUM OF 120 LBS.
4. ALL MANHOLE FRAMES OUTSIDE OF PAVED SURFACES SHALL BE BOLTED TO THE CONE SECTION OR RING WITH A MINIMUM OF 4 BOLTS PER FRAME.



INTERIOR STRUCTURE DIAMETER

STRUCTURE DEPTH	DIAMETER
0–10'	48–IN
10'+	60–IN

STRUCTURE DIAMETER SHALL BE DETERMINED BY PRE–CAST SUPPLIER AS NEEDED TO ACCOMMODATE ALL STORM PIPES CONNECTING TO MANHOLE.

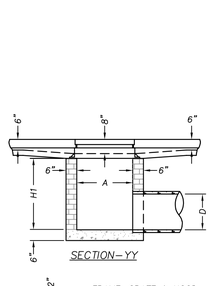
STORM DRAIN MANHOLE N.T.S.

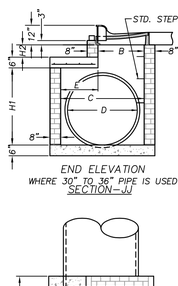
MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN

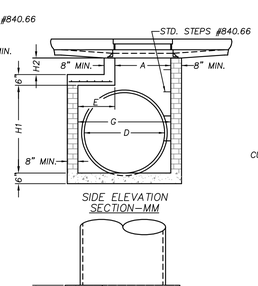
DIMENSIONS OF BOX AND PIPE								COVER DIMENSION		BARS–U		BARS–V		BARS–W		TOTAL
PIPE	SPAN	WIDTH	WIDTH	SPAN	HEIGHT	HEIGHT		E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	LBS.
D	A	B	C	G	MIN H1	H2										
12"	3'–0"	2'–2"	–	–	2'–3"	–		–	–	–	–	–	–	–	–	–
15"	3'–0"	2'–2"	–	–	2'–6"	–		–	–	–	–	–	–	–	–	–
18"			–	–	2'–10"	–		–	–	–	–	–	–	–	–	–
24"			–	–	3'–2"	–		–	–	–	–	–	–	–	–	–
30"			3'–4"	–	3'–4"			1'–10"	4'–4"	4	1'–6"	3	4'–1"	3	4'–1"	45
36"			3'–10"	–	3'–8"			2'–4"	4'–4"	4	2'–0"	4	4'–1"	3	4'–1"	49
42"			–	4'–5"	4'–4"	VAR.		2'–1"	3'–6"	4	1'–9"	3	3'–3"	3	3'–3"	38
48"			–	5'–0"	4'–10"			2'–8"	3'–6"	4	2'–6"	4	3'–3"	3	3'–3"	40
54"	3'–0"	2'–2"	–	5'–7"	5'–4"			3'–3"	3'–6"	4	3'–0"	6	3'–3"	3	3'–3"	48

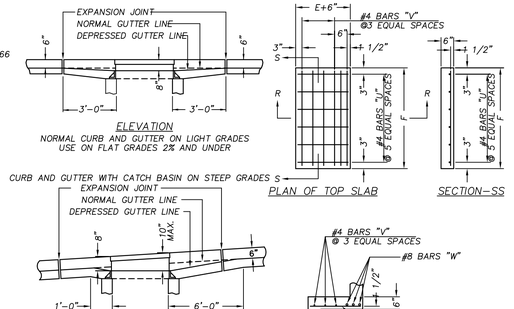
GENERAL NOTES:

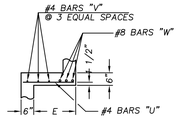
1. MORTOR JOINTS 1/2" TO 1/8" THICK.
2. CLASS "B" CONCRETE TO BE USED THROUGHOUT.
3. THE POURING OF FLOOR SLAB TO BE ACCOMPLISHED BY FORMING.
4. DEDUCT FOR PIPE'S) FROM TOTAL CU. YARDS OF BRICK MASONRY.
5. ALL CATCH BASINS OVER 3'–6" IN DEPTH TO BE PROVIDED WITH STEPS 1'–2" ON CENTER. STEPS SHALL BE IN ACCORDANCE WITH STD. NO. 840.66.
6. USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
7. JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK.
8. IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OR BOX, ADD TO BASE AS SHOWN ON NCDOT STD. NO. 840.00.
9. FOR 8'–0" IN HEIGHT OR LESS, USE 8" WALLS. OVER 8'–0" IN HIGHT, USE 12" WALL TO 6'–0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'–0". QUALITIES TO BE ADJUSTED ACCORDINGLY.
10. PRECAST CONCRETE CONSTRUCTION MAY BE USED IN LIEU OF BRICK AND BLOCK CONSTRUCTION.

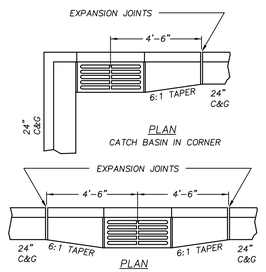






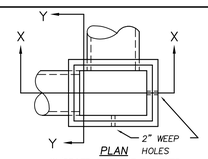


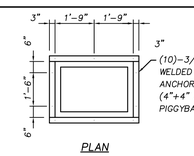


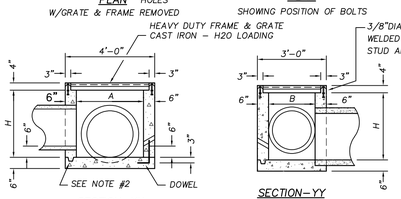


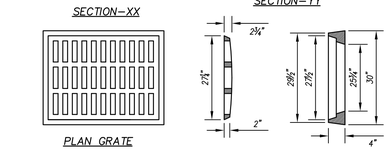
CATCH BASIN N.T.S.

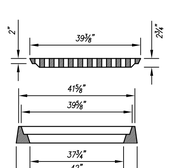
24" CURB & GUTTER AT CATCH BASINS N.T.S.









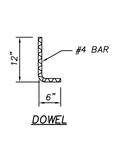


DIMENSIONS FOR DROP INLET			
DIMENSIONS OF BOX & PIPE			
PIPE	SPAN	WIDTH	HEIGHT
D	A	B	H
12"	3'–0"	2'–0"	2'–8"
15"			3'–0"
18"			3'–5"
24"			4'–0"
30"	3'–0"	2'–0"	4'–3"

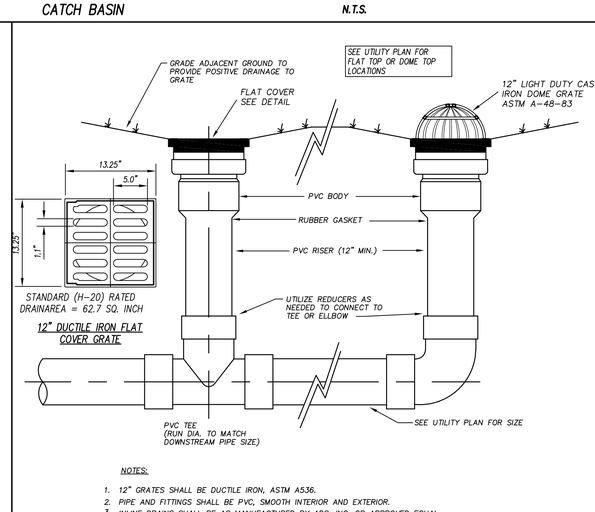
DIMENSIONS FOR CHANNELS			
NO.	SIZE	LENGTH	TOTAL LIN. FT.
2	3"x4.1"	4'–0"	8'–0"
2	3"x4.1"	2'–6"	5'–0"

GENERAL NOTES:

1. CLASS "B" CONCRETE TO BE USED THROUGHOUT.
2. OPTIONAL CONSTRUCTION – MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTER, AS DIRECTED BY THE DESIGNER.
3. TWO 2" PIPE WEEP HOLES TO BE PLACED AS DIRECTED BY DESIGNER.
4. FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
5. IF REINFORCED CONCRETE PIPE IS SET IN BASE OF BOX, ADD TO BASE AS SHOWN ON N.C.D.O.T. STANDARD 840.00.
6. A STONE DRAIN CONSISTING OF 1 CUBIC FOOT OF NO. 78M STONE CONTAINED IN A BAG OF POROUS FABRIC SHALL BE PLACED AT EACH WEEP HOLE.
7. ALL DROP INLETS OVER 3'–6" IN DEPTH TO BE PROVIDED WITH STEPS 1'–2" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH N.C.D.O.T. STANDARD 840.66.
8. ADA RATED HEAVY DUTY GRATE TO BE INSTALLED PEDESTRIAN AREAS.



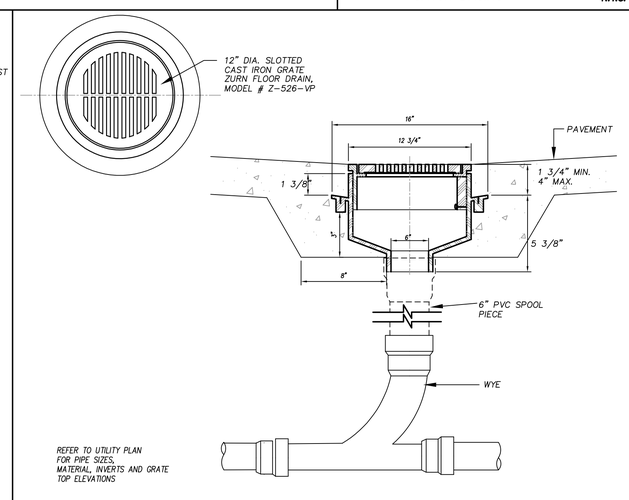
DROP INLET N.T.S.



NOTES:

1. 12" GRATES SHALL BE DUCTILE IRON, ASTM A536.
2. PIPE AND FITTINGS SHALL BE PVC, SMOOTH INTERIOR AND EXTERIOR.
3. INLINE DRAINS SHALL BE AS MANUFACTURED BY ADS, INC. OR APPROVED EQUAL.

INLINE DRAIN N.T.S.



FLOOR DRAIN N.T.S.

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PE: C–1595

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POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

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Date: 2025.05.02 12:35:55-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 044600 ENGINEER CORINNE E. WILSON

DKA JOB NUMBER

Project Number

REVISIONS

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PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED

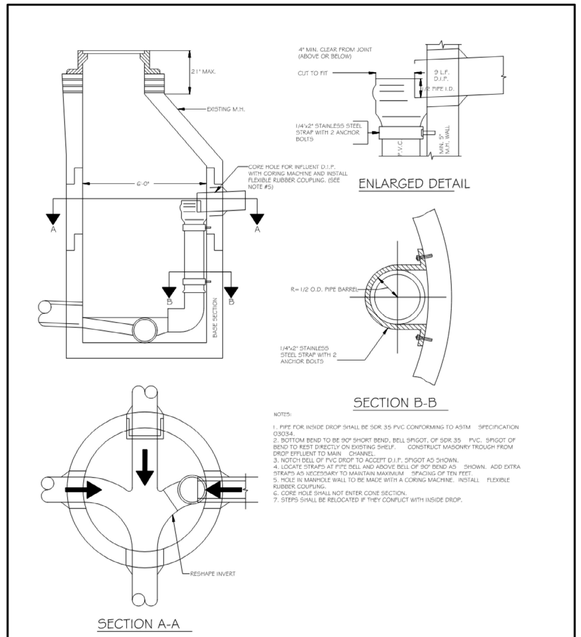
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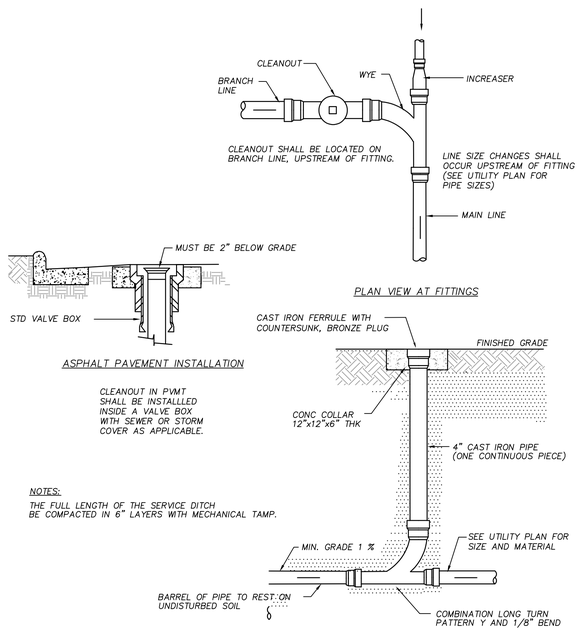
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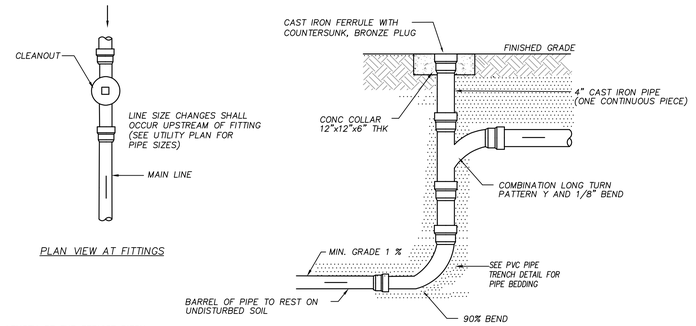
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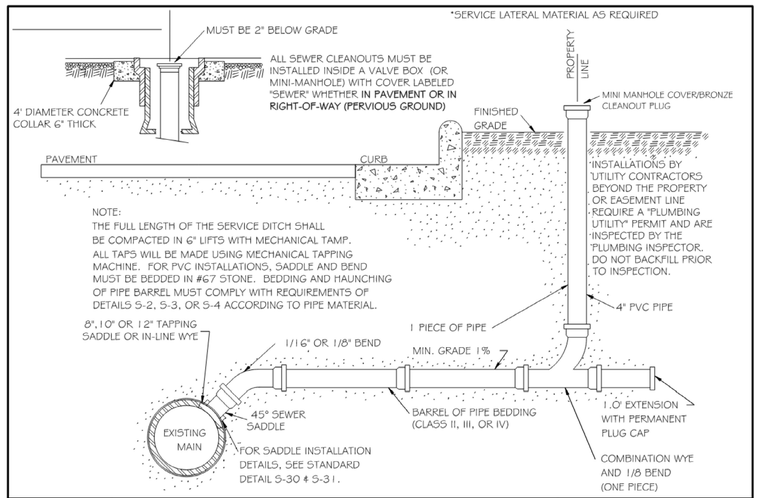
ANGIER — TOWN OF CREPE MYRTLES	INSIDE DROP MANHOLE	NOT TO SCALE / DATE:5/2021	S-47	REVISIONS



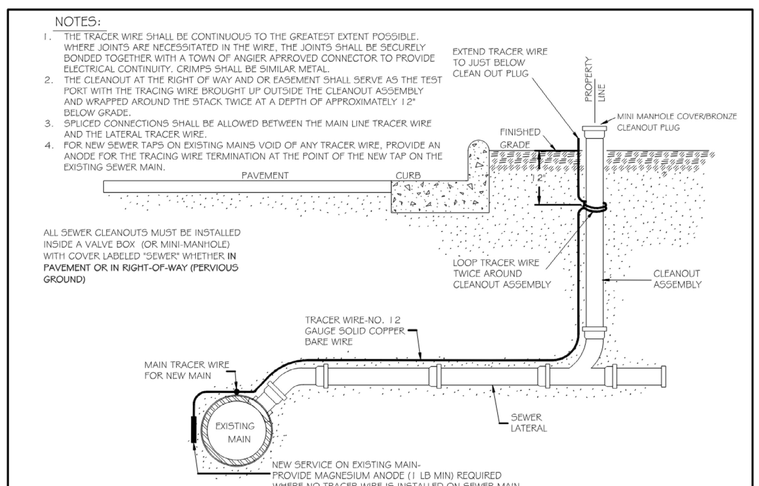
STANDARD CLEANOUT — N.T.S.



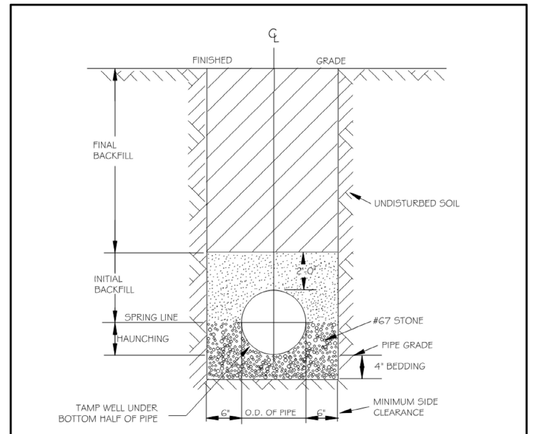
STANDARD DROP CLEANOUT — N.T.S.



ANGIER — TOWN OF CREPE MYRTLES	TYPICAL SANITARY SEWER LATERAL CONNECTION	NOT TO SCALE / DATE:5/2021	S-28	REVISIONS



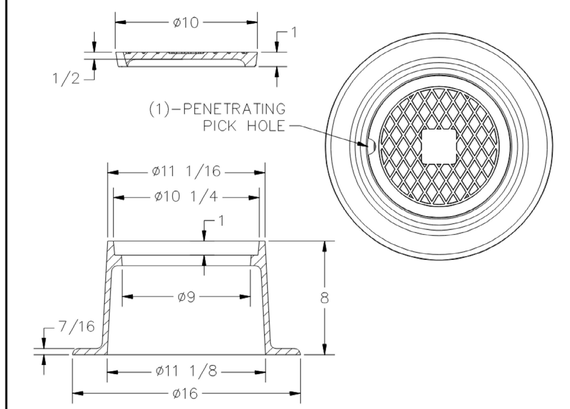
ANGIER — TOWN OF CREPE MYRTLES	TYPICAL SANITARY SEWER LATERAL TRACER WIRE	NOT TO SCALE / DATE:5/2021	S-28a	REVISIONS



TYPICAL TRENCH BOTTOM DIMENSIONS FOR SDR 35 PVC GRAVITY PIPE

NOTES:
1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

ANGIER — TOWN OF CREPE MYRTLES	TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS FOR PVC GRAVITY SEWER MAIN	NOT TO SCALE / DATE:5/2021	S-3	REVISIONS



US FOUNDRY — AN EAGLE MANUFACTURING COMPANY
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ANGIER — TOWN OF CREPE MYRTLES	USF 7631 RING & QF COVER 6" CLEANOUT	NOT TO SCALE / DATE:5/2021	S-49	REVISIONS

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
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Phone: (919) 319-6716
Fax: (919) 319-7516
LA: C-106
PE: C-1595

PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier
29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

Digitally signed by Corinne Wilson
Date: 2025.05.02 12:36:08-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 044600 ENGINEER CORINNE E. WILSON

DKA JOB NUMBER
Project Number

REVISIONS

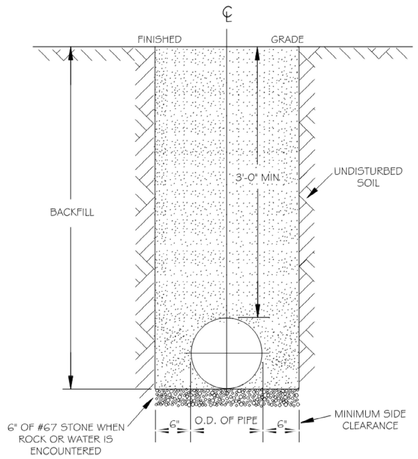
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PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED
PERMIT SET
05/02/2025

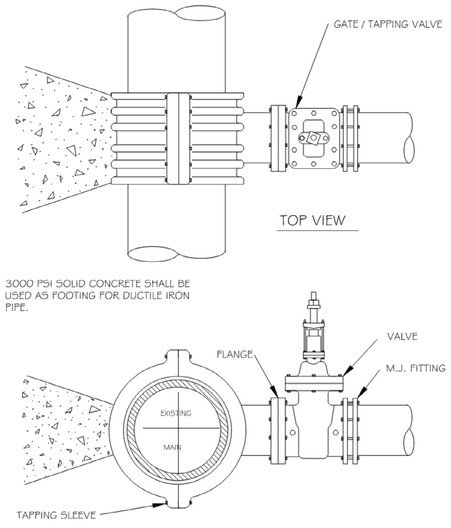
SHEET TITLE
SANITARY SEWER DETAILS

C902



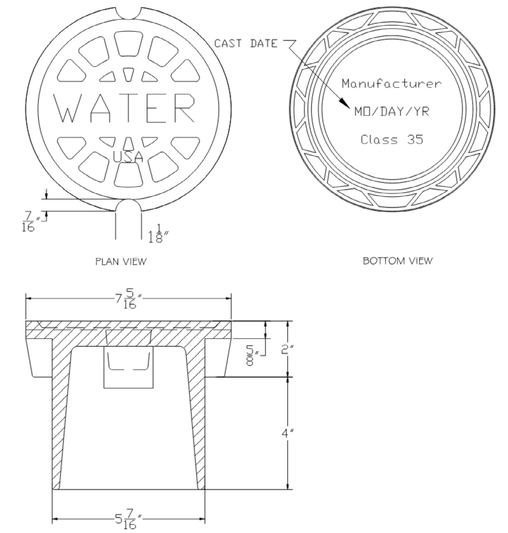
NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS.
5. ACHIEVE 95% COMPACTION IN BACKFILL.

ANGIER / TOWN OF CREPE MRYTLES	TRENCH BOTTOM DIMENSIONS & BACKFILL (DUCTILE IRON)	NOT TO SCALE	DATE:8/2021	REVISIONS	W-3



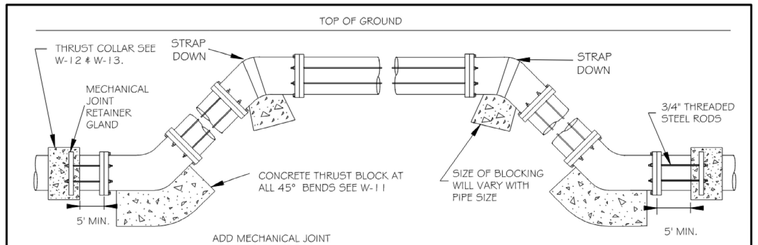
NOTES:
1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
2. SEE STANDARD REACTION BLOCK TABLES, W-12 AND W-13 FOR AREA OF CONCRETE REQUIRED.

ANGIER / TOWN OF CREPE MRYTLES	STANDARD TAPPING SLEEVE & VALVE ASSEMBLY 4" - 24" MAINS	NOT TO SCALE	DATE:8/2021	REVISIONS	W-15



NOTES:
1. "WATER" LETTERING MUST BE 1" RAISED (RECESSED FLUSH)
2. VALVE COVER SHALL BE DOMESTICALLY CAST.
3. COVER MUST HAVE A MINIMUM WEIGHT OF 25 POUNDS.
4. COVER MUST BE CLASS 35 OR GREATER.
5. COVER MUST MEET OR EXCEED AASHTO H-20 LOAD REQUIREMENTS.

ANGIER / TOWN OF CREPE MRYTLES	VALVE BOX LID 5 1/4" DROP LID WITH 4" SKIRT	NOT TO SCALE	DATE:8/2021	REVISIONS	W-20

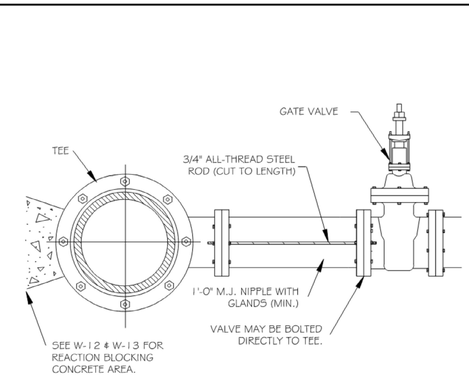


ROD REQUIREMENTS

SIZE OF 45 BEND	STATIC THRUST IN POUNDS	NO. OF RODS REQUIRED
6"	4,328	2
8"	7,694	4
12"	17,312	4
16"	30,779	8
24"	69,252	8

GENERAL NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT BENDS.
3. RESTRAINED MECHANICAL GLANDS TO BE USED AT ALL FITTINGS.
4. MUST USE DUCTILE IRON EYE BOLTS WHERE NECESSARY.
5. 3' MINIMUM COVER MUST BE MAINTAINED ON ALL WATER MAINS

ANGIER / TOWN OF CREPE MRYTLES	STANDARD VERTICAL BEND	NOT TO SCALE	DATE:8/2021	REVISIONS	W-14

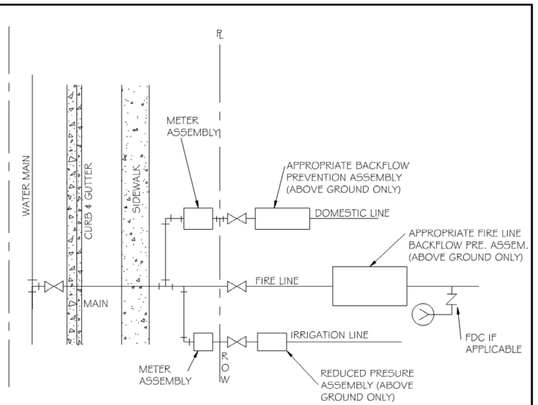


ROD REQUIREMENTS

NO. OF RODS	BRANCH SIZE
4"	2
6"	2
8"	4
12"	4
16"	6
24"	6
30"	8
36"	8

NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
2. SEE STANDARD THRUST BLOCK, TABLES W-12 AND W-13 FOR CONCRETE.
3. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.
4. THIS RODDING REQUIREMENT DOES NOT APPLY TO FIRE HYDRANTS.

ANGIER / TOWN OF CREPE MRYTLES	VALVE RESTRAINT AT TEES & CROSSES 4" - 24" MAINS	NOT TO SCALE	DATE:8/2021	REVISIONS	W-16



1. SERVICE TAPS FOR 2" AND SMALLER DOMESTIC SERVICES MAY BE BY CORPORATION COCKS. LARGER SERVICES WILL REQUIRE A TEE AND GATE VALVE OR TAPPING SLEEVE AND VALVE ASSEMBLY AND 90° BEND.
2. DOMESTIC SERVICE TAPS SHALL BE ALLOWED ONLY ON 6" OR LARGER FIRE LINES BEFORE THE BACKFLOW ASSEMBLY.
3. ONE DOMESTIC TAP PER FIRE LINE ON STREET SIDE OF BACKFLOW. 4. FIRE LINE SHALL HAVE A FIRE HYDRANT OR BLOW OFF ASSEMBLY AT ITS END TO FACILITATE FLUSHING WHEN NEEDED.
5. IRRIGATION METER SHALL BE LOCATED ON THE SIDE OF DOMESTIC METER WITH INCREASING ADDRESSES.
6. THE BACKFLOW SHALL BE INSTALLED NO MORE THAN 10' FROM THE METER IN A VISIBLE LOCATION.
7. DOMESTIC/IRRIGATION BACKFLOW RISER/STANDPIPE SHALL BE OF COPPER OR BRASS.
8. THE RP RELIEF VALVE SHALL BE A MINIMUM OF 12" ABOVE ANY MATERIAL (MULCH INCLUDED) OR GRADE.
9. A SERVICE VALVE IS REQUIRED AFTER THE METER BUT BEFORE THE BACKFLOW ASSEMBLY FOR MAINTENANCE AND REPLACEMENT PURPOSES.
10. THE INSTALLATION MUST ALSO MEET ALL CODE REQUIREMENTS PER THE NC PLUMBING CODE.

ANGIER / TOWN OF CREPE MRYTLES	FIRE, DOMESTIC & IRRIGATION OPTIONS SCHEMATIC	NOT TO SCALE	DATE:8/2021	REVISIONS	W-29

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
RALEIGH, NC 27605
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BOBBITT

CLH DESIGN, P.A.
400 Regency Forest Drive
Suite 120
Cary, North Carolina 27518
Phone: (919) 319-6716
Fax: (919) 319-7516
LA: C-106
PE: C-1595

PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier
29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

Digitally signed by Corinne Wilson
Date: 2025.05.02 12:36:29-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 044600 ENGINEER CORINNE E. WILSON

DKA JOB NUMBER
Project Number

REVISIONS

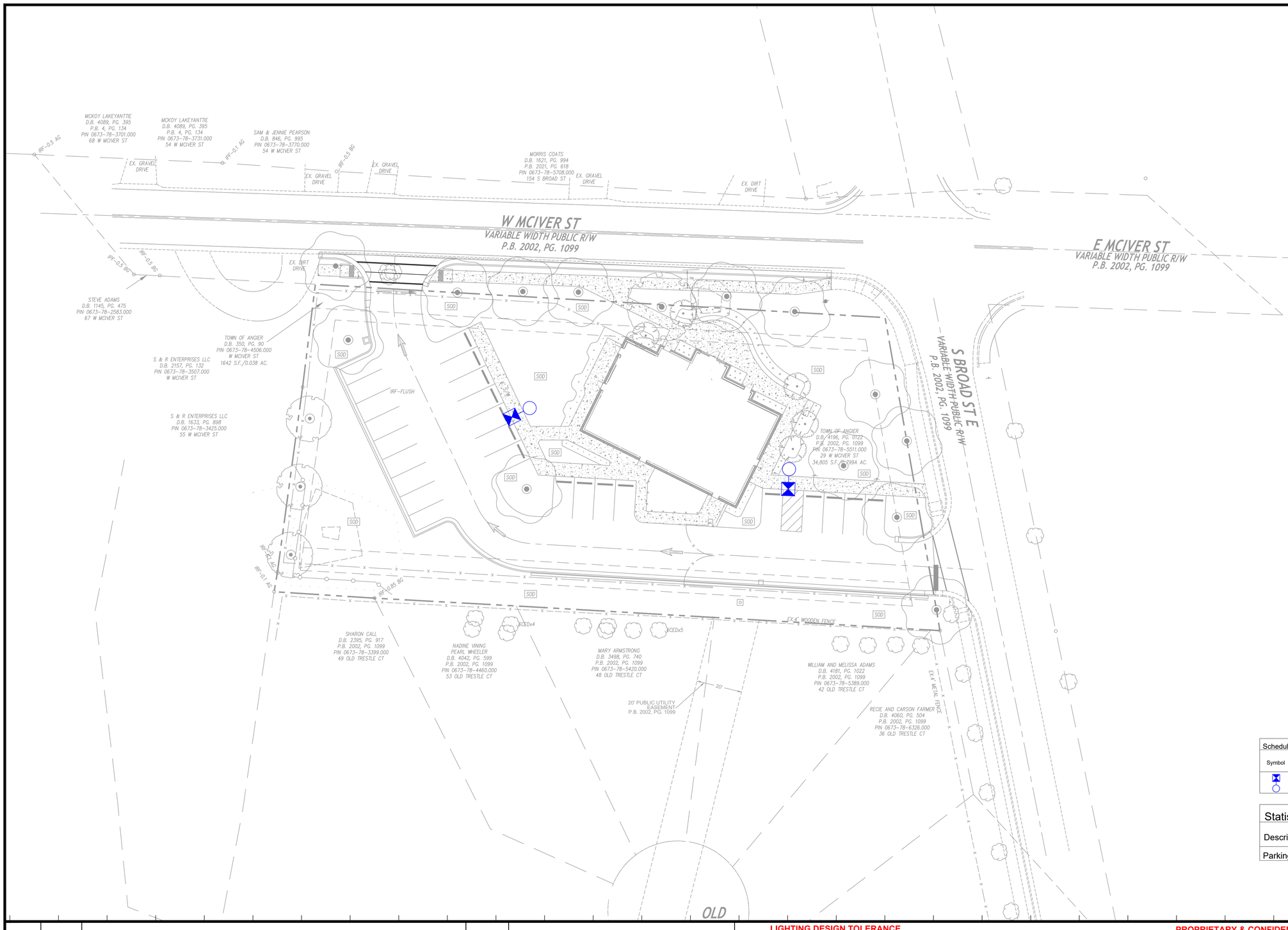
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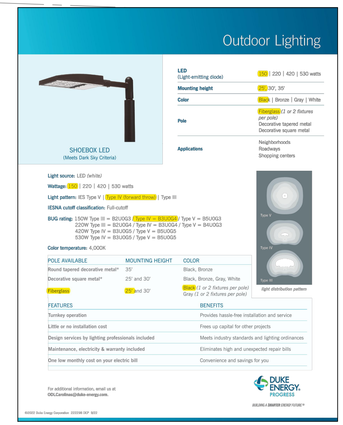
PM: KD
Drawn By: CW +WS
Plot Date: 04/10/2025

DATE ISSUED
PERMIT SET
05/02/2025

SHEET TITLE
WATER DETAILS

C903

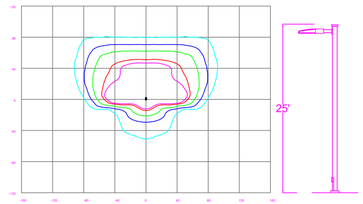




ISOFOOTCANDLE CURVES

FIXTURE: LED150W SHOEBOX
MOUNTING HEIGHT: 25 FT
LIGHT SOURCE: LED'S, 4000K, 70 CRI
LUMENS: - 19459
PATTERN: TYPE IV B3-U0-G4 (zero light at or above 90 degrees)
NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LED LUMEN DEPRECIATION AND DIRT DEPRECIATION FACTOR OF 0.85. TO OBTAIN FOOTCANDLES, DIVIDE THE READINGS BELOW BY .85.

ASSY# LFIX-SBK-LED-150-BLK-IV-MLS-TIV-___-P
POLE ASSY# LPOLE-DB-FG-25FT-BLK-___-P (BLACK)
BRACKET ASSY# LBKT-SIDE-12IN-BLK-GNV-STL-___-P (BLACK)



LEGEND (OUTER to INNER): 0.10 , 0.25 , 0.50 , 1.00 , 1.25

Schedule

Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
	A	2	LED 150w Shoebox - Type IV - 4000K	48	385	0.85

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot		1.3 fc	2.9 fc	0.3 fc	9.7:1	4.3:1

NO.	DATE	REVISION	BY

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

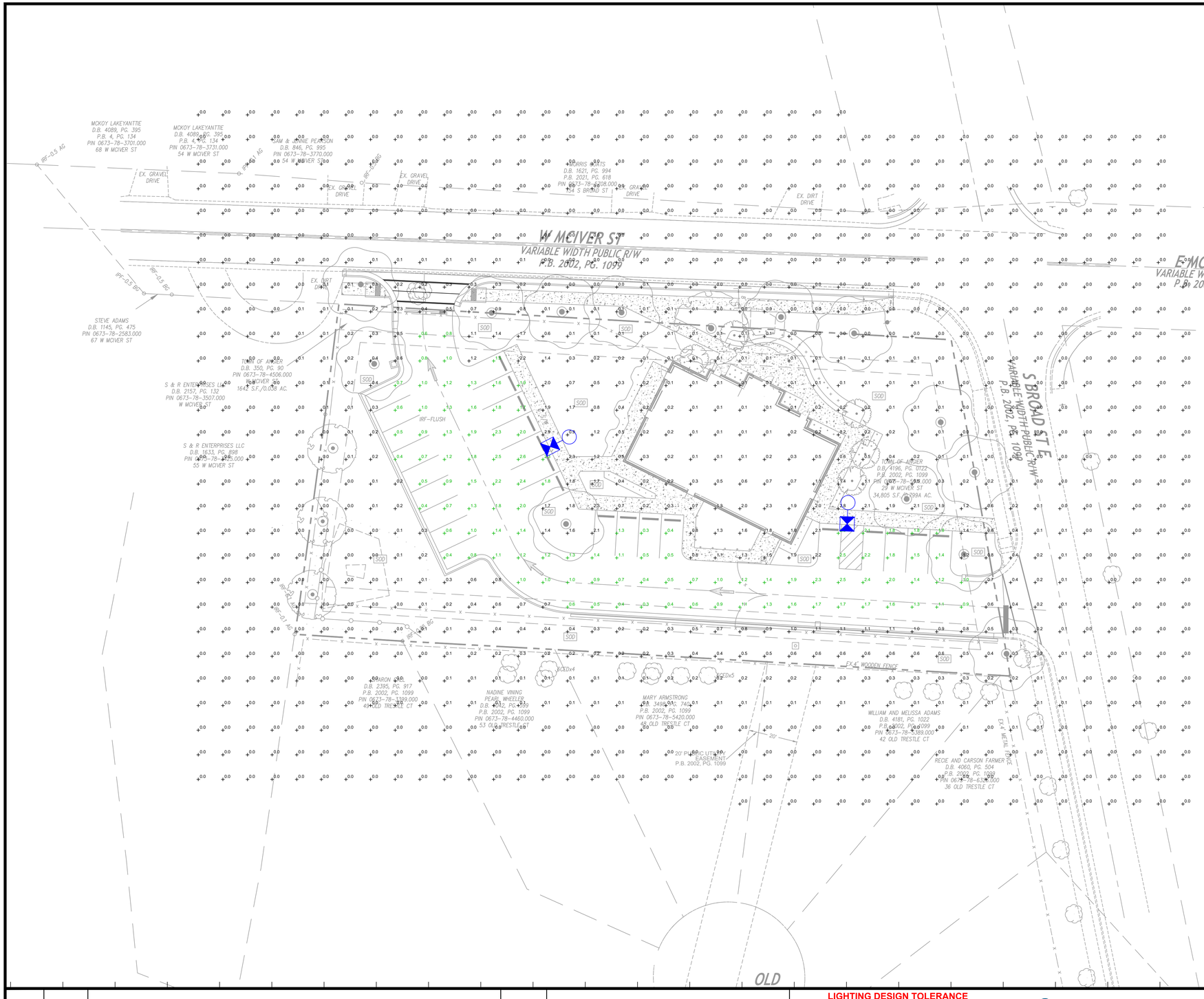
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ANGIER POLICE HEADQUARTERS
ANGIER, NC
STREET LIGHTING ARRANGEMENT

Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by A. Herrera
Scale 1" = 20'
Date 4/2/2025
Size Drawing size "D"
Description LED Shoebox
Drawing No. 25-0150A
Sht. 1 OF 1



Outdoor Lighting



SHOEBOX LED
(Meets Dark Sky Criteria)

LED (Light-emitting diode) — LED | 220 | 420 | 530 watts

Mounting height — 25', 30', 39'

Color — Black | Bronze | Gray | White

Pole — Fiberglass *1 or 2 fixtures per pole*; Decorative tapered metal; Decorative square metal

Applications — Neighborhoods; Roadways; Shopping centers

Light source: LED (white)

Wattage: 150 | 220 | 420 | 530 watts

Light pattern: IES Type V (Type IV (forward throw)) Type III

IESNA cutoff classification: Full-cutoff

BUG rating: 150W Type III = B2U0G1 / Type IV = B3U0G4 / Type V = B5U0G3
220W Type III = B2U0G4 / Type IV = B3U0G4 / Type V = B4U0G3
420W Type IV = B3U0G5 / Type V = B5U0G5
530W Type IV = B3U0G5 / Type V = B5U0G5

Color temperature: 4,000K

POLE AVAILABLE	MOUNTING HEIGHT	COLOR
Round tapered decorative metal*	25'	Black, Bronze
Decorative square metal*	25' and 30'	Black, Bronze, Gray, White
Fiberglass	25' and 30'	Black *(1 or 2 fixtures per pole)* Gray *(1 or 2 fixtures per pole)*



light distribution pattern

FEATURES	BENEFITS
Turnkey operation	Provides hassle-free installation and service
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance, electricity & warranty included	Eliminates high and unexpected repair bills
One low monthly cost on your electric bill	Convenience and savings for you

For additional information, email us at GDLCandlines@duke-energy.com.

DUKE ENERGY. PROGRESS

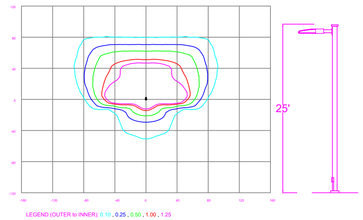
BUILDING A SMARTER ENERGY FUTURE™

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NO.	DATE	REVISION	BY

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ANGIER POLICE HEADQUARTERS
ANGIER, NC
STREET LIGHTING ARRANGEMENT

Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by A. Herrera
Scale 1" = 20'
Date 4/2/2025
Size Drawing size "D"
Description LED Shoebox
Drawing No. 25-0150A
Sht. 1 OF 1

ABBREVIATIONS

@	AT
AB	ANCHOR BOLT
ACCESS	ACCESSORY
ACT	ACOUSTIC(AL) CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
AOR	ARCHITECT OF RECORD
APC	ACOUSTIC(AL) PANEL CEILING
APPROX	APPROXIMATE
ARCH	ARCHITECTUR(AL)
AV	AUDIO VISUAL
BD	BOARD
BEJ	BUILDING EXPANSION JOINT
BFF	BELOW FINISHED FLOOR
BID	BID
BLDG	BUILDING
BLKG	BLOCKING
BOD	BOTTOM OF DECK
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CLSM	CLASSROM
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPCI	CONTRACTOR PROVIDED, CONTRACTOR INSTALLED
CPT	CARPET
CR	CARD READER
CSK	COUNTER SUNK
CT	CERAMIC TILE
D	DEEP
DEG	DEGREE(S)
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DS	DOWN SPOUT
DW	DISHWASHER
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EJC	EXPANSION JOINT COVER
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
EXTG	EXISTING
FA	FIRE ALARM
FACT	FACTORY FINISH
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH
FLR	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION

FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FP	FIRE PROTECTION
FRP	GLASS FIBER REINFORCED PLASTIC PANELS
FRT	FIRE-RETARDANT-TREATED
FT	FEET (FOOT)
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACT(OR)
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS
GLZ	GLAZING
GWB	GYPSUM WALL BOARD
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIBB
HD	HEAVY DUTY
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IF	INSIDE FACE
IFC	INTERNATIONAL FIRE CODE
IN	INCH(ES)
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
KPL	KICKPLATE
L	LONG
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LIN	LINOLEUM
LVR	LOUVER
LVT	LUXURY VINYL TILE
LWIC	LIGHTWEIGHT INSULATING CONCRETE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBL	MARBLE
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENINIG
MTL	METAL
NA	NOT APPLICABLE
NCSBC	NORTH CAROLINA STATE BUILDING CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVERHANG
OHD	OVER HEAD
OPCI	OWNER PROVIDED, CONTRACTOR INSTALLED
OPNG	OPENING(S)
OPOI	OWNER PROVIDED, OWNER INSTALLED
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
PERF	PERFORATED
PERP	PERPENDICULAR
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PME	PLUMBING, MECHANICAL, ELECTRICAL
PNT	PAINT(ED)
PROP	PROPERTY

PSF	POUNDS / SQUARE FOOT
PSI	POUNDS / SQUARE INCH
PT	PRESERVATIVE-TREATED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
REBAR	STEEL REINFORCING BAR
REF	REFER(ENCE)
REINF	REINFORCE(D)(ING)(MENT)
REQD	REQUIRED
REV	REVISION(S), REVISED
RM	ROOM
RO	ROUGH OPENING
SC	SOLID CORE
SECT	SECTION
SF	SQUARE FEET (FOOT)
SFRM	SPRAYED FIRE-RESISTIVE MATERIAL
SHT	SHEET
SIM	SIMILAR
SLSF	SOLID SURFACE
SPEC	SPECIFICATION(S)
SPKLR	SPRINKLER
SQ IN	SQUARE INCH(ES)
SS	STAINLESS STEEL
ST	SIGN TYPE
STC	SOUND TRANSMISSION COEFFICIENT/CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRFR	STOREFRONT
STRUCT	STRUCTURE
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYS	SYSTEM(S)
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK
THRES	THRESHOLD
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
TZ	TERRAZZO
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UTIL	UTILIT(IES)(Y)
VB	VINYL BASE
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL(LY)
VIF	VERIFY IN FIELD
VNR	VENEER
VWC	VINYL WALL COVERING
W	WIDE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WG	WIRED GLASS
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
YD	YARD

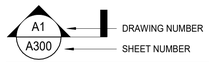
GENERAL SYMBOL LEGEND

NOT IN SCOPE AREA

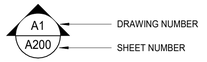
ENLARGED DRAWING REFERENCE



BUILDING / WALL SECTION CUT REFERENCE



EXTERIOR ELEVATION REFERENCE



INTERIOR ELEVATION REFERENCE



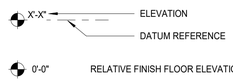
PARTITION TYPE



CONTROL JOINT



ELEVATION DATUM REFERENCE



WALLS



GENERAL FINISH / MATERIAL



DOOR / DOOR NUMBER



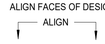
KEY NOTE



WINDOW TYPE



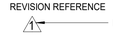
ALIGN FACES OF DESIGNATED SURFACES



NORTH ARROW



REVISION REFERENCE



ROOM TAG



FURNITURE, FIXTURES, & EQUIPMENT TAG

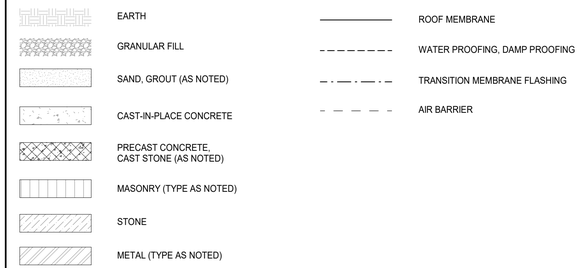


COLUMN GRID IDENTIFIER

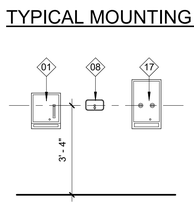


ARCHITECTURAL MATERIALS LEGEND

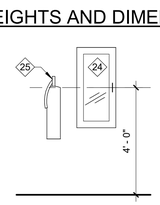
NOTE: PATTERNS SHOWN REPRESENT CUT MATERIALS IN PLAN OR SECTION, UNLESS NOTED OTHERWISE.



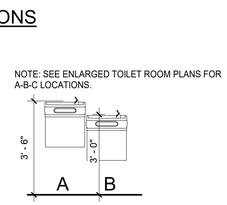
TYPICAL MOUNTING HEIGHTS AND DIMENSIONS



DISPENSERS
NTS

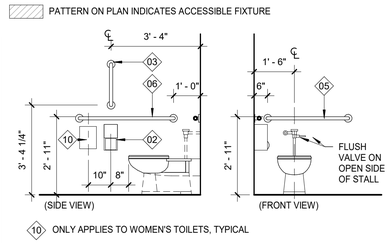


FIRE EXTINGUISHER AND CABINET
NTS



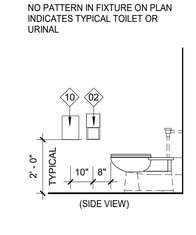
DRINKING FOUNTAIN
NTS

PATTERN ON PLAN INDICATES ACCESSIBLE FIXTURE

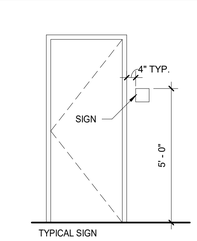


ADA TOILET
NTS

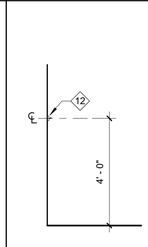
NO PATTERN IN FIXTURE ON PLAN INDICATES TYPICAL TOILET OR URINAL



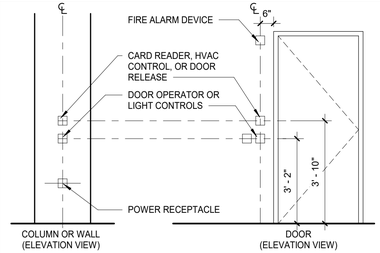
TYPICAL TOILET
NTS



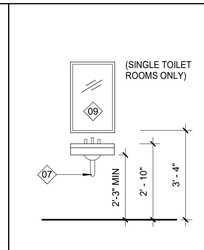
SIGN
NTS



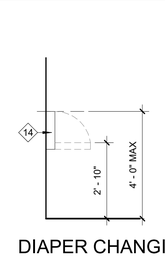
HOOK
NTS



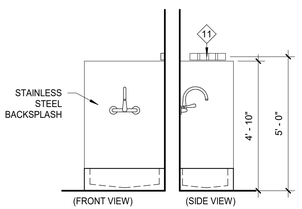
ELECTRICAL / MECHANICAL DEVICES
NTS



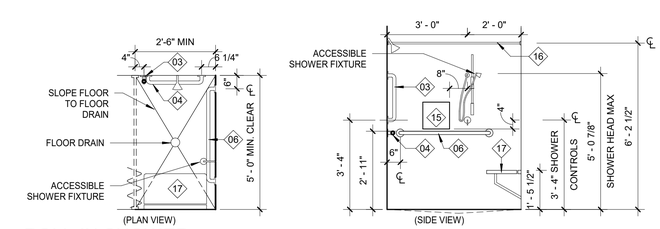
ADA LAVATORY
NTS



DIAPER CHANGING UNIT
NTS



MOP SINK
NTS



ROLL-IN SHOWER
NTS

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JIMMY ARDEL EDWARDS — REGISTERED ARCHITECT — 13823 — 05.02.25 — NORTH CAROLINA — RALEIGH, N.C.

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PERMIT DRAWINGS
05/02/25

SHEET TITLE

ABBREVIATIONS, LEGENDS & MOUNTING HEIGHTS

A001

MATERIAL LEGEND

FINISH CODE	FINISH TYPE	BOD	DESCRIPTION	COMMENTS
CEILING				
APC1	ACOUSTICAL CEILING TILE	ARMSTRONG	DUNE 1775	SUPRAFINE SUSPENSION SYSTEM
APC2	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA 1912	SUPRAFINE SUSPENSION SYSTEM
EXTERIOR				
BRK1	MODULAR BRICK VENEER	TRIANGLE BRICK	NC FLASHED WIRECUT 1630	SEE ELEVATIONS FOR INSTALLATION
CMU1	POLISHED FACE CMU	ADAMS/OLDCASTLE	HIGH POLISH #4302	
CS1	CAST STONE	TBD		SEE DETAILS FOR PROFILES
SS1	STANDING SEAM METAL ROOF	ATAS INTERNATIONAL	1 1/2" FIELD LOK	COLOR TBD
FLOORING				
CPT1	CARPET TILE	J+J FLOORING ADJUST 7601	3275 ROYAL PATH	
CPT2	CARPET TILE	J+J FLOORING ADVANCE 7600	CRISTAL OASIS 3268	
S.CONC	CONCRETE	SEALED COCNCRETE		COLOR TBD
MILLWORK				
PLAM1	PLASTIC LAMINATE	WILSONART	TRACELESS ACORN VELVET ELM 15602-31	
PLAM2	PLASTIC LAMINATE	WILSONART	TRACELESS NILE VELVET 15515 ULTRA MATTE	
PLAM3	PLASTIC LAMINATE	WILSONART	CLASSIC LINEN 4943-38 FINE VELVET FINISH	
QTZ	QUARTZ	HANSTONE	UPTOWN GREY RU609	COUNTERTOP
SLSF1	SOLID SURFACE	WILSONART	DUSK ICE 9203CE	
SSLAM	PLASTIC LAMINATE	WILSONART	SATIN STAINLESS LAMINATE 4830	
PAINT				
PNT1	PAINT	SHERWIN WILLIAMS	SW 7064 PASSIVE	FIELD PAINT
PNT2	PAINT	SHERWIN WILLIAMS	SW 0077 CLASSIC FRENCH GRAY	ACCENT PAINT
PNT3	PAINT	SHERWIN WILLIAMS	SW 9150 ENDLESS SEA	ACCENT PAINT
RESILIENT				
LVT1	LUXURY VINYL TILE	J+J COMPOSITE 5MM V5042	NATURAL 1116	LIGHT GRAY
LVT2	LUXURY VINYL TILE	J+J COMPOSITE 5MM V5042	SUITABLE 1115	DARK GRAY
RB1	RUBBER BASE	ROPPE	700 SERIES BASE;	COLOR TBD
TILE				
T1	FLOOR TILE	DALTILE	12X24	ASSEMBLE EMISSARY
T2	FLOOR TILE	DALTILE	2X2	ASSEMBLE EMISSARY
T3	WALL TILE	DALTILE COLOR WHEEL CLASSIC 3X6 GLOSSY	MIX OF: 40% K175, 30% X114, 30% O182	
T4	WALL TILE	DALTILE COLOR WHEEL CLASSIC 1X6 GLOSSY	QUARTER ROUND A106, COLOR X114 DESERT GRAY	
T5	WALL TILE	DALTILE COLOR WHEEL CLASSIC 4X4 GLOSSY	BULLNOSE 4"SIDE, S4449, COLOR X114 DESERT GRAY	
T6	WALL TILE	DALTILE COLOR WHEEL CLASSIC 3X6 GLOSSY	COLOR: SUEDE GRAY O182	
TB1	TILE BASE	DALTILE COLOR WHEEL CLASSIC 3X6 GLOSSY	COVE BASE A3361MOD, COLOR O182 SUEDE GRAY	
WALL PROTECTION				
WP1	WALL COVERING	WOLF GORDON RAMPART	GOH 34234322 LUCEA/INDIGO	ELEVATOR NICHE
WP2	WALL COVERING	WOLF GORDON RAMPART	GOH 33852907 DOUGLAS / PINE	RECEPTION WALL. VERTICAL GRAIN DIRECTION

ACCESSORY, FURNITURE, FIXTURE, & EQUIPMENT LEGEND

01	PAPER TOWEL DISPENSER
02	TOILET TISSUE DISPENSER W/ SEAT COVER DISPENSER AND WASTE RECEPTACLE
03	GRAB BAR - 18"
04	GRAB BAR - 24"
05	GRAB BAR - 36"
06	GRAB BAR - 42"
07	THERMALLY INSULATED P TRAP COVER
08	SOAP DISPENSER
09	FRAMED MIRROR OVER LAVATORY
10	SANITARY NAPKIN DISPOSAL
11	MOP/BROOM HOLDER
12	TOWEL HOOK
13	CIRCULAR COUNTERTOP WASTE CHUTE
14	DIAPER CHANGING UNIT
15	CONTRACTOR FABRICATED SHOWER SHELF
16	SHOWER CURTAIN ROD WITH CURTAIN
17	SHOWER SEAT
18	ADA BENCH
19	PERSONAL STORAGE LOCKER WITH PULL OUT BENCH
20	HIGH DENSITY STORAGE - MANUAL ASSIST
21	PASS THROUGH EVIDENCE LOCKER
22	PASS THROUGH EVIDENCE LOCKER WITH REFRIG. UNIT
23	EVIDENCE DRYING CABINET
24	RECESSED KEY LOCK BOX
25	QUARTERMASTER STORAGE - TBD
26	TV MONITOR - NIC
27	COPY MACHINE - NIC
28	DISHWASHER
29	REFRIGERATOR WITH ICEMAKER
30	MICROWAVE
31	TACKBOARD - 4' X 4'
32	MARKERBOARD - 4' X 4'
33	MARKERBOARD - 4' X 6'
34	MARKERBOARD - 4' X 8'
35	RANGE HOOD
36	UNDER COUNTER REFRIGERATOR
37	COMBINATION PAPER TOWEL DISP. & TRASH RECEPT.
38	CAST ALUMINUM BUILDING DEDICATION PLAQUE
39	HORIZONTAL LOUVER BLINDS

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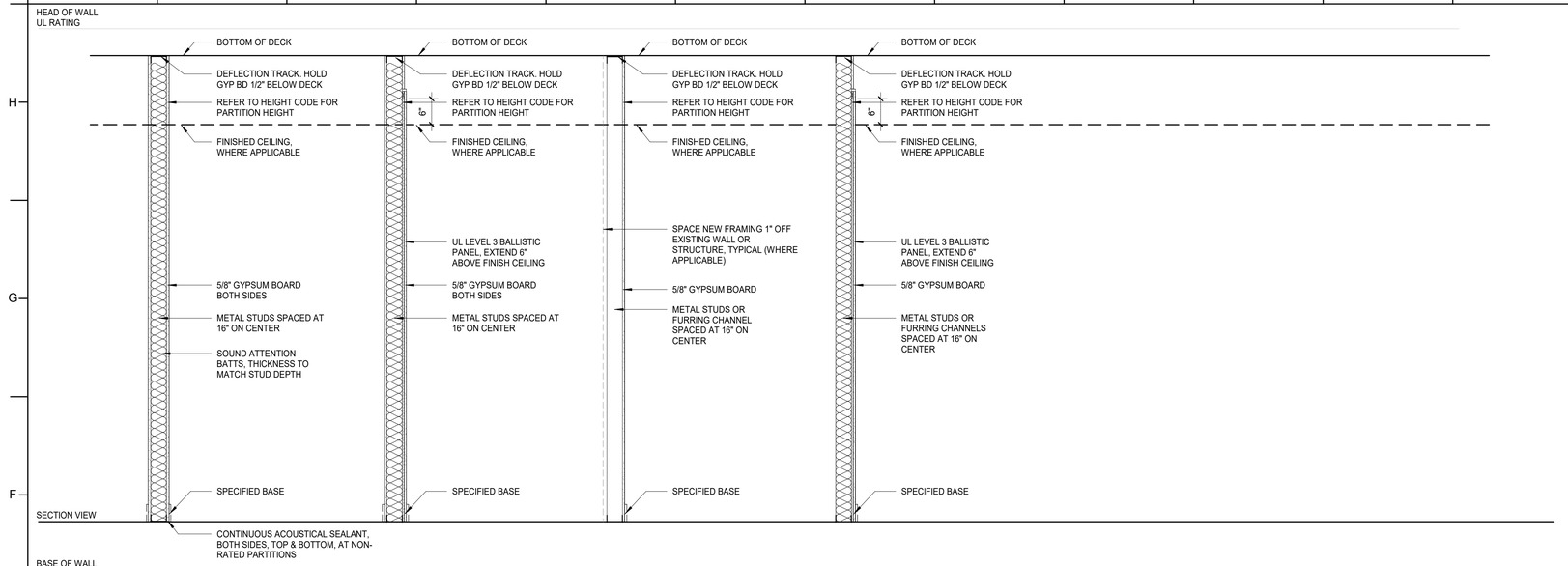
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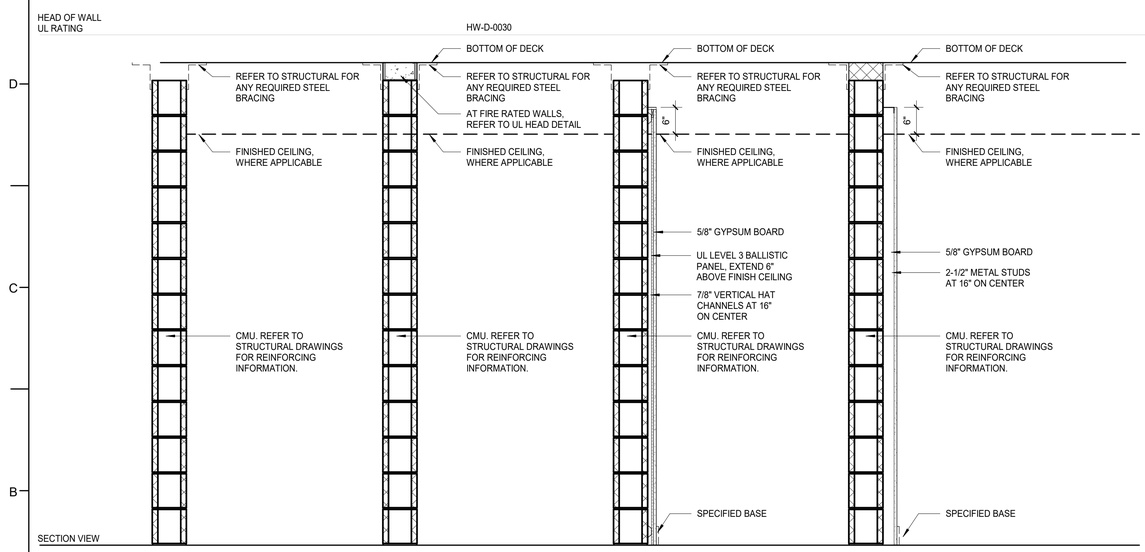
PERMIT DRAWINGS
05/02/25

SHEET TITLE
FF&E AND MATERIAL LEGEND

A002



STC RATING		STC 49					
WALL TYPE AND UL RATING.	A3_	3 5/8" METAL STUD	B3_	3 5/8" METAL STUD	C1_	7/8" FURRING CHANNEL	E2_	2 1/2" METAL STUD
RATING AND UL DETAILS ONLY APPLY WHERE PARTITION IS INDICATED AS FIRE RATED ON PLAN.	A6_	6" METAL STUD	B6_	6" METAL STUD	C2_	2-1/2" METAL STUD	E3_	3 5/8" METAL STUD
					C3_	3 5/8" METAL STUD	E6_	6" METAL STUD
					C6_	6" METAL STUD		



STC RATING			STC 48				
WALL TYPE AND UL RATING.	G8_	8" CMU (NON-FIRE RATED)	M8_	8" CMU UL U905 (1 OR 2 HOUR)	N8_	8" CMU UL U905 (1 OR 2 HOUR)	P8_	8" CMU (NON-FIRE RATED)
RATING AND UL DETAILS ONLY APPLY WHERE PARTITION IS INDICATED AS FIRE RATED ON PLAN.								

INTERIOR PARTITION NOTES

1. ALL RATED ASSEMBLIES SHALL BE STENCILED IN RED WITH RATED WALL WARNING MESSAGE TO READ AS FOLLOWS: "__-HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS" WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS SHOWN ON PLANS. LETTERING TO BE 4" MIN HIGH, LOCATED 12" ABOVE CEILING, SPACED AT 6'-0" OC ON BOTH SIDES OF WALLS AND ON UNDERSIDE OF HORIZONTAL RATED ASSEMBLIES.
2. SEE SHEET **G004** FOR UL CERTIFIED RATED ASSEMBLIES AS REQUIRED BY INTERIOR PARTITION LEGEND. AT RATED ASSEMBLIES, PROTECT JOINTS WITH RATED ASSEMBLIES TO MAINTAIN FIRE RATINGS. SEE PLUMBING, MECHANICAL AND ELECTRICAL SHEETS FOR PROTECTION OF PENETRATIONS IN RATED ASSEMBLIES. SEAL PERIMETER OF ALL RATED ASSEMBLIES AT DECK, STRUCTURE, CEILING, FLOOR AND ADJACENT WALLS.
3. COORDINATE LAYOUT OF WALLS OF DIFFERENT TYPES SUCH THAT FINISHED GYPSUM BOARD SURFACES ALIGN IN SAME PLANE.
4. AT NON-RATED WALLS AND PARTITIONS, SEAL PENETRATIONS USING APPROVED NON-COMBUSTIBLE MATERIAL.
5. AT PARTITION WALLS WITH SOUND BATT INSULATION: PROVIDE CONTINUOUS ACOUSTIC SEALANT AROUND FULL PERIMETER OF PARTITION AT ADJACENT SURFACES AND AT PENETRATIONS. SEPARATE ELECTRICAL BOXES ON OPPOSITE SIDES OF STUD PARTITIONS BY AT LEAST ONE STUD. AT PARTITIONS WITH MULTIPLE LAYERS OF GYPSUM BOARD, STAGGER GYPSUM BOARD JOINTS BETWEEN LAYERS. PROVIDE PUTTY PADS AT ELECTRICAL BOXES.
6. TOP OF WALL BRACING IS NOT SHOWN THIS SHEET, BUT IS REQUIRED FOR MEETING PARTITION DEFLECTION CRITERIA AND/OR AS REQUIRED ON STRUCTURAL DRAWINGS. PARTITION BRACING SHALL BE ABOVE CEILING UNLESS APPROVED BY ARCHITECT IN WRITING.
7. ISOLATE NON-LOAD-BEARING STUD FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT.
8. PROVIDE GYPSUM BOARD CONTROL JOINTS (TYPE PER DETAILS), LOCATED WHERE INDICATED ON DRAWINGS OR BASED ON SPACING PER SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. COORDINATE CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
9. REFER TO INTERIOR FINISHES PLANS AND REFLECTED CEILING PLANS FOR ADDITIONAL WALL FINISH, BASE, AND CEILING INFORMATION.
10. PROVIDE WATER RESISTANT GYPSUM BOARD WITHIN 4 FEET OF DRINKING FOUNTAINS / WATER COOLERS, UNLESS OTHERWISE NOTED.
11. PROVIDE SPECIFIED TILE BACKER BOARD IN LIEU OF GYPSUM BOARD AT ALL WALLS SCHEDULED TO RECEIVE TILE OR FRP PANELS.
12. CORRIDOR WALLS SHALL RECEIVE ABUSE RESISTANT GYPSUM BOARD TYPICAL, UON.
13. OUTSIDE CORNER OF CMU WALLS TO BE BULLNOSED FROM 8" AFF TO 8'-8" AFF TYPICAL, UON.
14. PARTITION HEIGHT CODES ARE PRESENTED BY THE LAST LETTER OF THE PARTITION TAG, DEFINED AS FOLLOWS :

_A	FULL HEIGHT PARTITION (UP TO STRUCTURE ABOVE), FIRE RATED WHERE INDICATED ON PLAN.
_B	PARTITION EXTENDS TO 6" ABOVE FINISHED CEILING.
_C	PARTITION EXTENDS TO UNDERSIDE OF FINISHED CEILING.
_D	PARTIAL HEIGHT PARTITION, REFER TO PARTITION DETAIL FOR HEIGHT AND HEAD DETAIL INFO.
_E	METAL STUDS EXTEND FULL HEIGHT UP TO STRUCTURE ABOVE. GYPSUM BOARD ON ONE SIDE (WITHOUT CEILING) EXTENDS FULL HEIGHT; GYPSUM BOARD OR TILE BACKER ON OTHER SIDE (WITH CEILING) STOPS AT CEILING.

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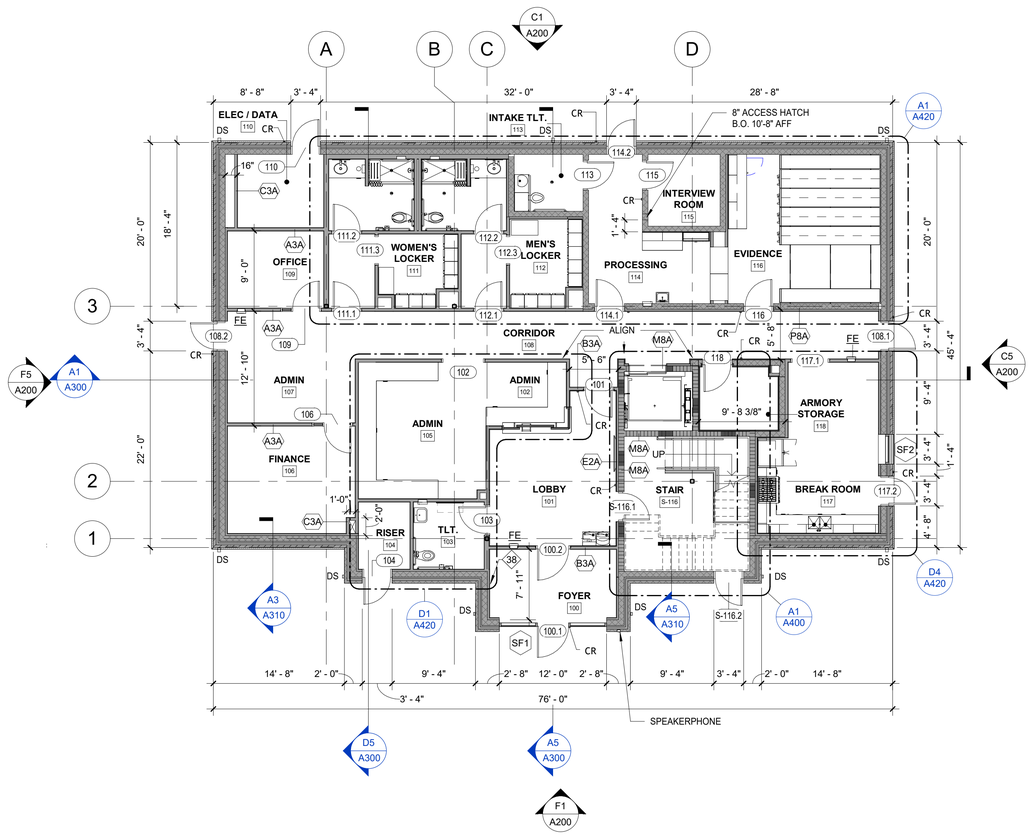
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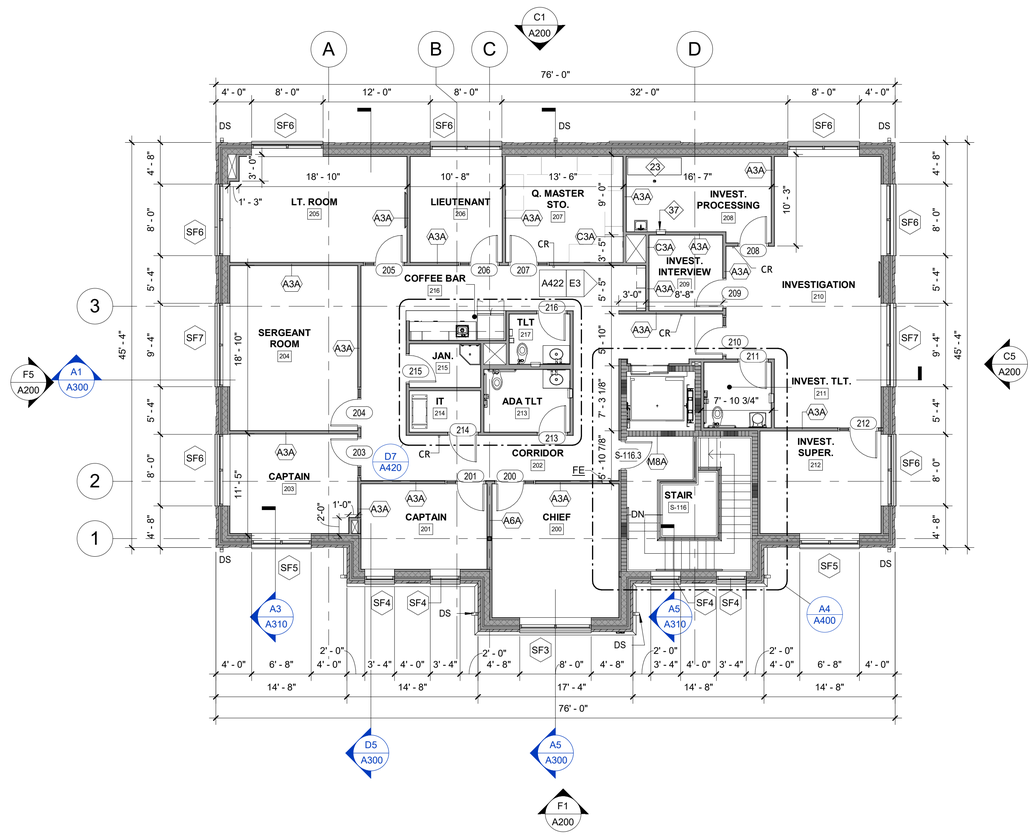
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SHEET TITLE
PARTITION WALL TYPES

A003



D1 FIRST FLOOR PLAN
1/8" = 1'-0"



D5 SECOND FLOOR PLAN
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. SEE SHEET A002 FOR INTERIOR PARTITION LEGEND AND NOTES. SEE WALL SECTIONS FOR EXTERIOR WALLS, TYPICAL.
2. ALL PARTITION DIMENSIONS APPLY FROM FACE OF METAL STUD, FACE OF MASONRY, FACE OF CONCRETE, OR COLUMN CENTERLINE, UON.
3. PARTITIONS NOT DIMENSIONED MAY BE LOCATED BY ONE OF THE FOLLOWING CRITERIA:
   A. AS REQUIRED TO MAINTAIN OTHER DIMENSIONS NOTED AS "HOLD," "CLEAR," OR "MINIMUM."
   B. CENTER OF GRIDLINE, COLUMN, GLAZING MULLION,
   C. ALIGNMENT OF FINISHES WITH EXISTING PARTITION, COLUMN, OR SURFACE.
4. DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION.
5. ALL HINGE-SIDE DOOR JAMBS IN STUD WALLS SHALL BE 4" TO THE INSIDE OF ADJACENT PERPENDICULAR WALL, UNLESS DIMENSIONED OTHERWISE.
6. ALL HINGE-SIDE JAMBS IN CMU WALLS HALL BE 4" TO 8", AT A MASONRY HEAD JOINT, TO INSIDE OF ADJACENT PERPENDICULAR WALL, UNLESS DIMENSIONED OTHERWISE.
7. ALL DOORS IN ALCOVES SHALL BE 18" MINIMUM FROM STRIKE SIDE OF DOOR TO INSIDE OF ADJACENT PERPENDICUALR WALL, UNLESS DIMENSIONED OTHERWISE.
8. PROVIDE CONTROL JOINTS IN INTERIOR AND EXTERIOR CMU WALLS EVERY 20'-0" MAX, UON. MAINTAIN 2'-0" MINIMUM BETWEEN CJ AND OPENING JAMBS.
9. SEE KEY NOTES AND NOTES ON PLANS FOR SPECIFIC NOTES FOR EACH DRAWING AREA.
10. COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS TO ENSURE PROPER ROUGH-IN CLEARANCES FOR INSTALLATION, USE, AND MAINTENANCE.
11. OPENINGS IN MASONRY WALLS SHALL RECEIVE LINTELS OR BOND BEAMS. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
12. PROVIDE SEALANT AT JUNCTION OF DIFFERENT MATERIALS UNLESS OTHER MEANS OF SEALING AND CLOSURE IS SPECIFIED.
13. INSTALL METAL "F" TRIM AT ANY VERTICAL EDGE OF GYPSUM BOARD THAT ABUTS CMU.
14. PROVIDE THOROUGH FINAL CLEANING PRIOR TO OWNER OCCUPANCY. INTERIOR CLEANING TO INCLUDE FLOORS, BASE, WALLS, WALL-MOUNTED EQUIPMENT, FURNISHINGS, DOORS, WINDOWS, FRAMES, SILLS, CEILINGS, CEILING MOUNTED EQUIPMENT, AND FIXTURES.
15. VERIFY MOUNTING HEIGHTS OF ACCESSORIES, RAILINGS AND GRAB BARS, ART, EQUIPMENT, DOOR HARDWARE, CASEWORK, ETC., AND PROVIDE SOLID FIRE-TREATED WOOD IN-WALL BLOCKING BEHIND ITEMS REQUIRING ANCHORAGE. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, REFER MOUNTING HEIGHT QUESTIONS TO ARCHITECT FOR INTERPRETATION.
16. SEE I-SHEETS FOR INTERIOR FINISHES PLANS, FF&E PLANS, SCHEDULES, AND ADDITIONAL FINISHES.
17. PROVIDE CONTINUOUS BLOCKING 7'-0" A.F.F. IN THE FOLLOWING ROOMS: 101, 105, 106, 107, 109, 117, 200, 201, 202, 203, 204, 205, 206, 207, 210, AND 212.

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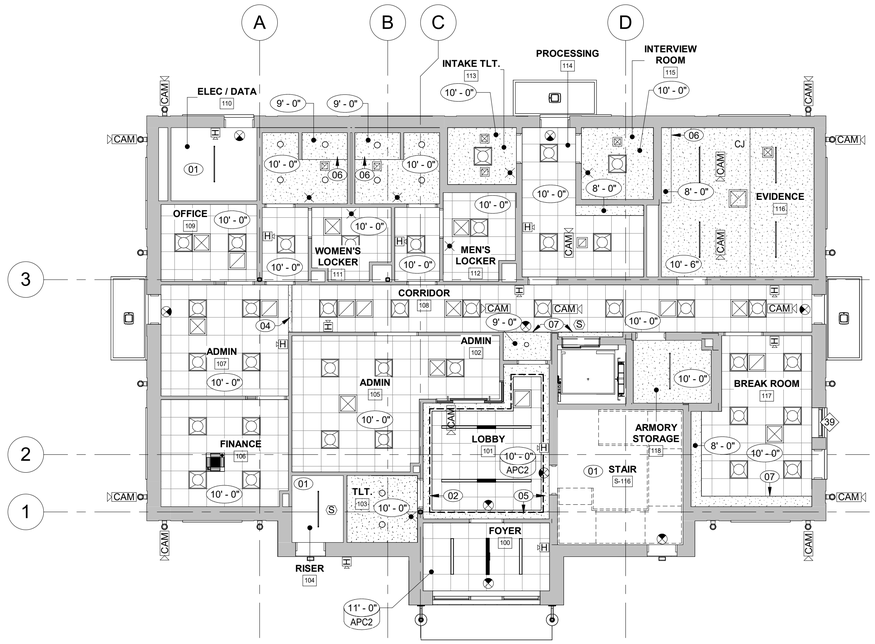
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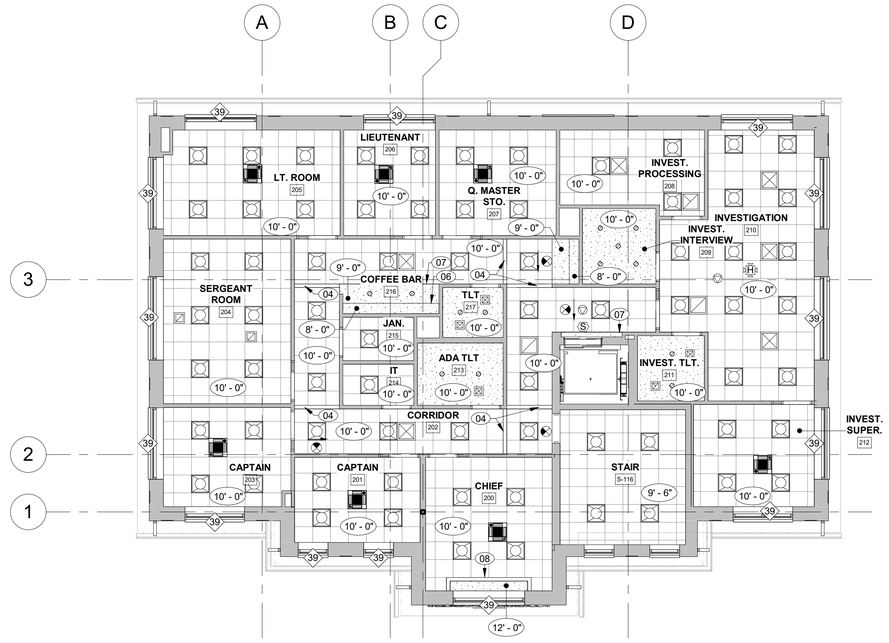
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SHEET TITLE
FLOOR PLANS

A100



E1 FIRST FLOOR RCP
1/8" = 1'-0"
0' 4' 8' 16'



D4 SECOND FLOOR RCP
1/8" = 1'-0"
0' 4' 8' 16'

CEILING PLAN KEY NOTES

NOT ALL KEY NOTES BELOW ARE APPLICABLE TO THIS SHEET. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. REFER TO OTHER SHEETS FOR GENERAL PROJECT NOTES, PARTITION NOTES, LEGENDS, AND ADDITIONAL REQUIREMENTS.

01	PAINT ALL EXPOSED STRUCTURE, SPRINKLER PIPES, DUCTWORK, AND CONDUIT. REFER TO MATERIAL LEGEND FOR PAINT SPECIFIACTION.
02	DASHED LINE INDICATES CONTINUOUS LED COVE LIGHT
04	REFER TO DETAIL E1/A111 FOR GWB BULKHEAD TO APC, SINGLE STUD DETAIL
05	REFER TO DETAIL D1/A111 FOR COVE LIGHT GWB BULKHEAD TO APC DETAIL
06	REFER TO DETAIL B1/A111 FOR GWB BULKHEAD TO GWB DETAIL
07	REFER TO DETAIL A1/A111 FOR GWB BULKHEAD TO APC DETAIL
08	REFER TO DETAIL A4/A111 FOR GWB BULKHEAD TO GWB & APC, SINGLE STUD DETAIL

CEILING PLAN SYMBOL LEGEND

- 10'-0" / APC1 — CEILING HEIGHT ABOVE FINISHED FLOOR / CEILING FINISH CODE
- GYPSUM BOARD CEILING
- ACOUSTICAL CEILING: 2' x 2'
- SECURITY METAL CEILING
- MECHANICAL GRILLE / DIFFUSER
- MECHANICAL LINEAR DIFFUSER
- CEILING CASSETTE UNIT
- RECESSED LIGHT FIXTURE
- RECESSED TAMPER RESISTANT LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- SURFACE MOUNTED OR SUSPENDED STRIP LIGHT
- WALL MOUNTED LINEAR LIGHT
- (S) SMOKE DETECTOR
- EXIT LIGHT FIXTURE / EXIT DIRECTIONAL ARROW
- (H) (H) FIRE ALARM HORN / STROBE
- FIRE ALARM STROBE
- (OS) OCCUPANCY SENSOR
- (CO) CO DETECTOR
- WIRELESS ACCESS POINT
- (CAM) SECURITY CAMERA
- ELECTRICAL OUTLET
- EXTERIOR FLUSH MOUNTED LIGHT
- EXTERIOR WALL SCONCE
- EXTERIOR POLICE GLOBE WALL SCONCE

CEILING PLAN GENERAL NOTES

1. CEILING GRIDS SHALL BE CENTERED IN ROOM AS SHOWN, UNLESS DIMENSIONED OTHERWISE.
2. ALL ACOUSTICAL PANEL CEILINGS TO BE APC1, UON.
3. DOUBLE CEILING TRACK AT THE EDGE OF ANY LAY-IN AREAS IS NOT ACCEPTABLE. PROVIDE 2' x 4' PANEL CUT TO FIT THE LARGER OPENING WHERE A STRIP OF PANEL LESS THAN 2 1/2" IN EITHER DIRECTION WOULD HAVE TO BE USED, TYPICAL.
4. MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND AV COMPONENTS ARE SHOWN FOR COORDINATION PURPOSES ONLY. SEE PLUMBING, ELECTRICAL, MECHANICAL, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF MECHANICAL, FIRE PROTECTION, ELECTRICAL, AND PLUMBING WORK ABOVE CEILING, IN ORDER TO PROVIDE FINISHED CEILINGS AT HEIGHTS REQUIRED ON CEILING PLAN. ANY INTERFERENCE WITH INTENDED CEILING HEIGHT THAT CANNOT BE SOLVED WITH FIELD COORDINATION SHOULD BE BROUGHT TO ARCHITECT'S ATTENTION IMMEDIATELY.
6. PRIME AND PAINT ALL NON-GALVANIZED STEEL LINTELS THAT ARE TO REMAIN EXPOSED.
7. SEE INTERIOR FINISHES SCHEDULE AND INTERIOR FINISHES PLANS ON I-SHEETS FOR ADDITIONAL CEILING INFORMATION AND REQUIREMENTS.
8. SEE SECTIONS AND INTERIOR ELEVATIONS FOR BULKHEAD DIMENSIONS NOT NOTED ON REFLECTED CEILING PLANS AND DETAILS.
9. PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK, WHETHER OR NOT INDICATED ON THE DRAWINGS.
10. ALL GYPSUM BOARD CONTROL JOINTS SHOWN ON REFLECTED CEILING PLANS SHALL EXTEND VERTICALLY UP THE FACE OF SOFFITS AND BULKHEADS, WHERE APPLICABLE.
11. CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC. UON
12. PAINT ALL EXPOSED GYPSUM BOARD CEILINGS, SOFFITS, AND BULKHEADS. PAINT FOR CEILINGS, STRUCTURE, AND BUILDING SYSTEMS SHALL BE FLAT. PAINT FOR SOFFITS AND BULKHEADS SHALL MATCH SHEEN LEVEL OF ADJACENT WALL(S).
13. SUBMIT COORDINATION DRAWINGS AND LAYOUT FOR APPROVAL IN ALL AREAS WITH EXPOSED STRUCTURE, PRIOR TO INSTALLATION.
14. AUTOMATIC FIRE SPRINKLER DESIGN SHALL BE HANDLED BY PERFORMANCE SPECIFICATION. PROVIDE SHOP DRAWINGS FOR ARCHITECT REVIEW. CONTRACTOR SHALL BE RESPONSIBLE FOR FULL RCP COORDINATION.

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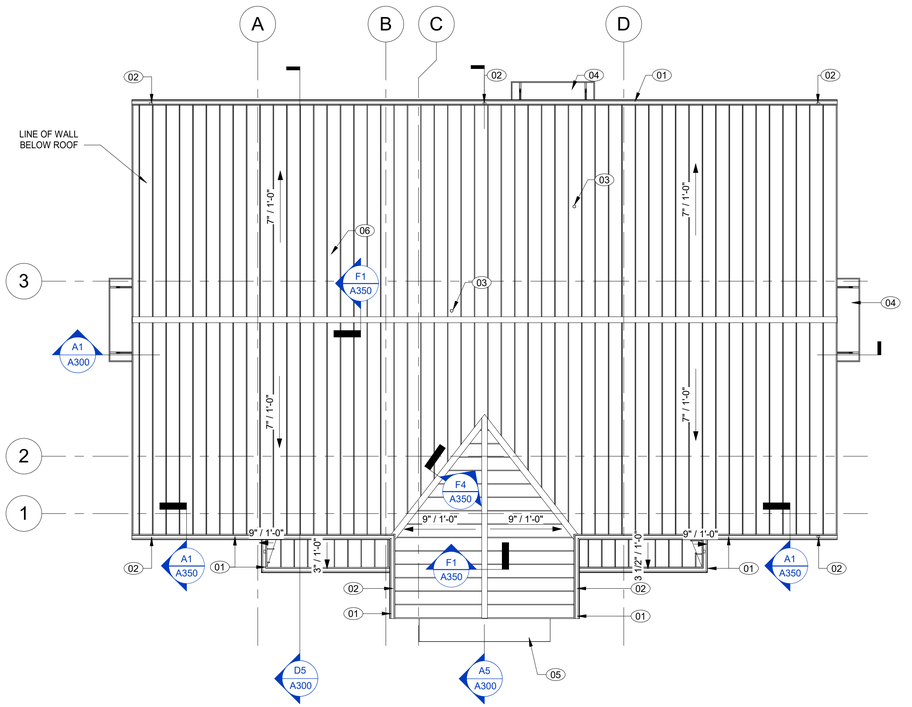
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SHEET TITLE

REFLECTED CEILING PLANS

A110



D5 ROOF PLAN
1/8" = 1'-0"

0' 4' 8' 16'

ROOF GENERAL NOTES

1. NEW ROOF SYSTEM INCLUDES ALL COMPONENTS AND ACCESSORIES REQUIRED TO PROVIDE A COMPLETE, WATERTIGHT, AND WARRANTED SYSTEM. ITEMS INCLUDE, BUT ARE NOT LIMITED TO, INSULATION, TAPERED INSULATION, ADHESIVE, PRIMER, FASTENERS, ANCHORS, METAL FLASHING, COPING, WOOD BLOCKING, DRAINS, SUMPS, CURBS, PATCHING MATERIALS, AGGREGATES, ETC.
2. COORDINATE INSTALLATION OF NEW ROOF SYSTEM TO MINIMIZE THE TIME WHEN ROOF DECK IS EXPOSED TO WEATHER AND BUILDING IS SUBJECT TO WATER INTRUSION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT WATER INTRUSION INTO BUILDING DURING CONSTRUCTION, INCLUDING TEMPORARY COVERS.
3. SLOPE INDICATED IN LEGEND IS A MINIMUM SLOPE MEASURED AT THE ROOF SURFACE.

ROOF SYMBOL LEGEND

←	1/4" PER FOOT SLOPED
←←←	SLOPED ROOF STRUCTURE
⊙	ROOF/OVERFLOW DRAINS
⊠	EXHAUST FAN
DS	DOWNSPOUT
○ VTR	VENT THROUGH ROOF
0'-0"	SPOT ELEVATION

ROOF PLAN KEY NOTES

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01	PRE-FINISHED METAL GUTTER
02	DOWNSPOUT TO CAST IRON PIPE BOOT - SEE CIVIL DRAWINGS FOR CONNECTION.BOOT TO BE PROVIDED AND INSTALLED BY GC.
03	VENT PIPE - SEE PLUMBING DRAWINGS
04	PRE-ENGINEERED ALUMINUM CANOPY
05	PRE-ENGINEERED CANTILEVERED ALUMINUM CANOPY
06	PROPOSED LOCATION OF BDA ANTENNA

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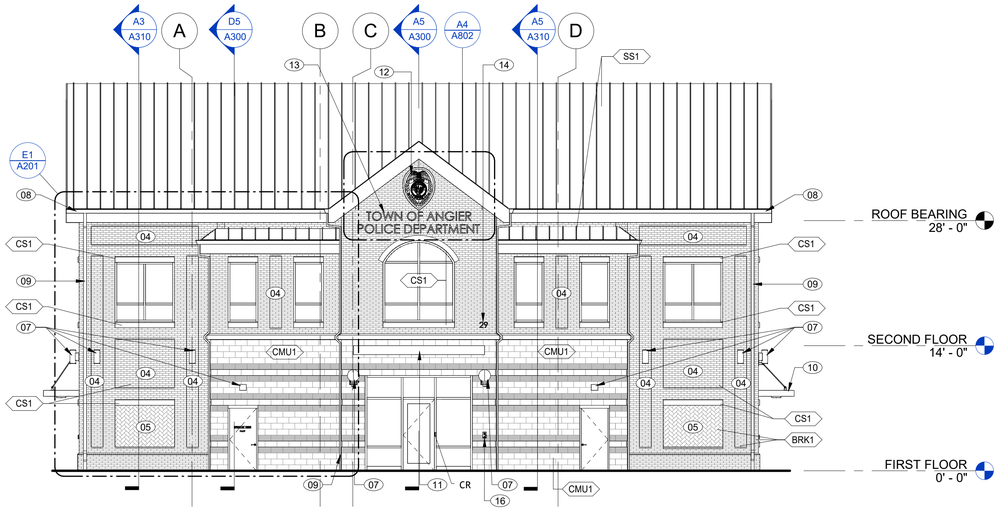
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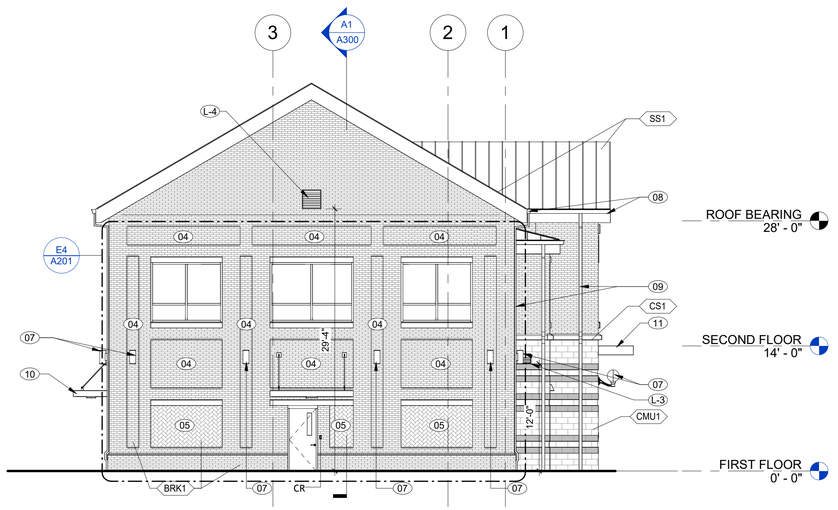
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SHEET TITLE
ROOF PLAN

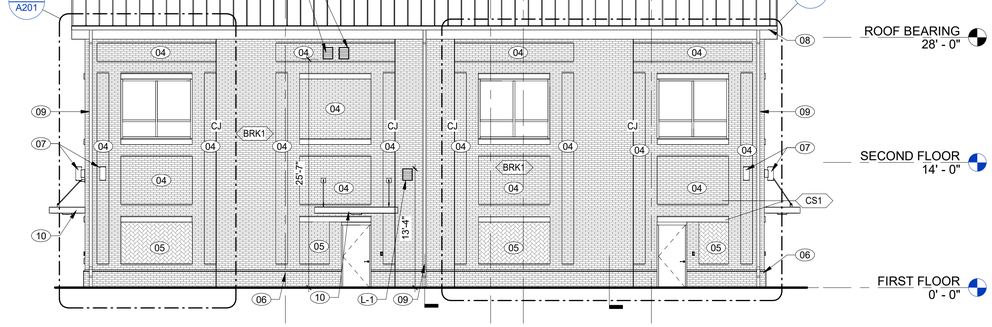
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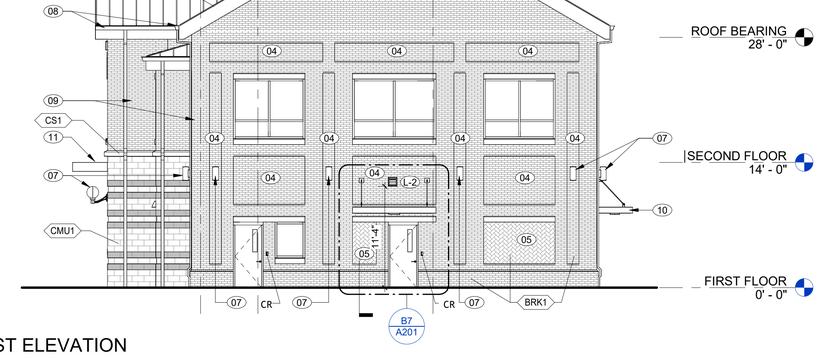
F1 SOUTH ELEVATION
1/8" = 1'-0"



F5 WEST ELEVATION
1/8" = 1'-0"



C1 NORTH ELEVATION
1/8" = 1'-0"



C5 EAST ELEVATION
1/8" = 1'-0"

EXTERIOR ELEVATION GENERAL NOTES

1. FOR SYMBOLS LEGEND, SEE A001.
2. LOUVERS NOT TAGGED IN EXTERIOR ELEVATIONS ARE TAGGED IN BUILDING AREA PLANS.
3. PROVIDE CONTROL JOINTS (CJ) IN MASONRY CONSTRUCTION AS INDICATED.
4. PROVIDE CONTROL JOINTS (CJ) AT ALL INSIDE CORNERS.
5. VERIFY FINAL CONTROL JOINT (CJ) LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK.
6. AIR BARRIER AND ASSOCIATED FLASHING SHALL BE CONTINUOUS AND UNBROKEN AT ALL SURFACES OF WALL MEMBRANE TO BE FLASHED TO ALL OTHER COMPONENTS AND ASSEMBLIES TO PROVIDE AIR-TIGHT CONDITION.

EXTERIOR ELEVATION LEGEND

SOLID BRICK/CMU TO CONCEAL MASONRY VOIDS AT RECESSED AREAS

ELEVATIONS KEY NOTES

NOT ALL KEY NOTES BELOW ARE APPLICABLE TO THIS SHEET. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. REFER TO OTHER SHEETS FOR GENERAL PROJECT NOTES, PARTITION NOTES, LEGENDS, AND ADDITIONAL REQUIREMENTS.

01	EXHAUST FAN WALL CAP - SEE MECHANICAL DRAWINGS
02	CONCRETE-FILLED STEEL BOLLARD
03	WALL CAP, COORDINATE EXACT LOCATION IN FIELD
04	BRICK VENEER, RUNNING BOND, 1" RECESS
05	BRICK VENEER, HERRINGBONE, 1" RECESS
06	BRICK WATER TABLE
07	LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
08	PRE-FINISHED METAL GUTTER
09	DOWNSPOUT TO CAST IRON PIPE BOOT - SEE CIVIL DRAWINGS FOR CONNECTION.
10	PRE-ENGINEERED ALUMINUM CANOPY
11	PRE-ENGINEERED CANTILEVERED ALUMINUM CANOPY
12	HALO AND BACKLIT TOWN OF ANGIER POLICE BADGE SIGN ON STANDOFFS
13	BACKLIT 12" ANODIZED LETTERS ON STANDOFFS
14	8" HIGH ANODIZED ADDRESS LETTERS ON STANDOFFS
16	EMERGENCY SPEAKERPHONE
L-1	LOUVER - SEE MECHANICAL DRAWINGS AND SCHEDULES
L-2	LOUVER - SEE MECHANICAL DRAWINGS AND SCHEDULES
L-3	LOUVER - SEE MECHANICAL DRAWINGS AND SCHEDULES
L-4	LOUVER - SEE MECHANICAL DRAWINGS AND SCHEDULES

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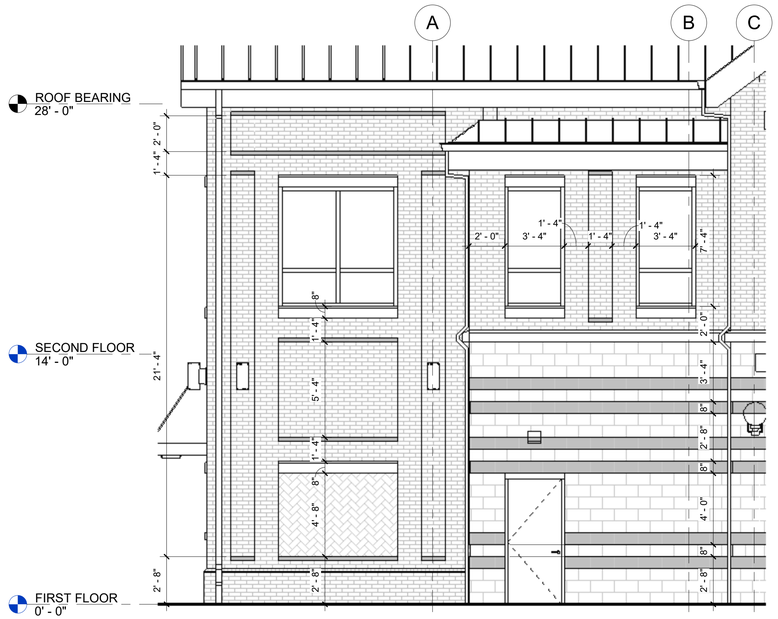
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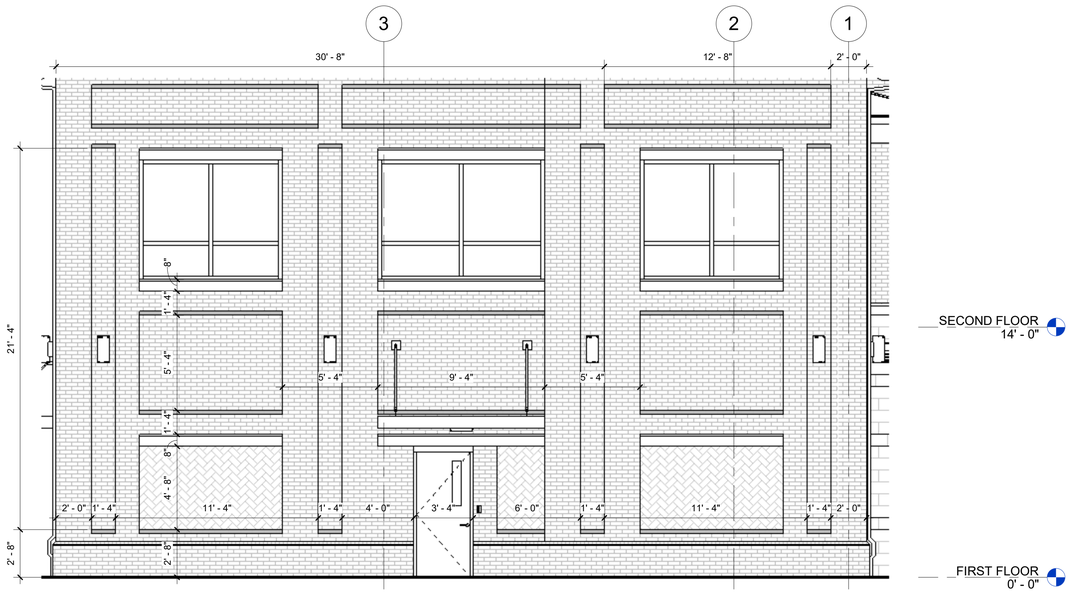
SHEET TITLE

BUILDING ELEVATIONS

A200



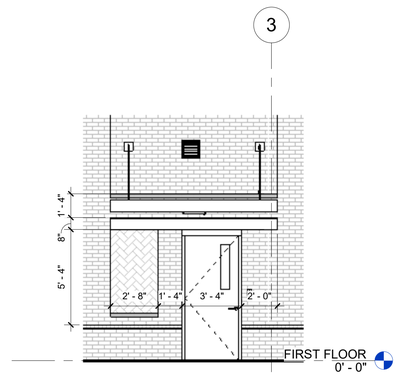
E1 ENLARGED FRONT ELEVATION - MASONRY DIMENSIONS
1/4" = 1'-0"



E4 ENLARGED WEST ELEVATION - MASONRY DIMENSIONS
1/4" = 1'-0"

B1 ENLARGED NORTH ELEVATION - MASONRY DIMENSIONS
1/4" = 1'-0"

B3 ENLARGED NORTH ELEVATION #2- MASONRY DIMENSIONS
1/4" = 1'-0"



B7 ENLARGED PARTIAL EAST ELEVATION - MASONRY DIMENSIONS
1/4" = 1'-0"

EXTERIOR ELEVATION LEGEND

SOLID BRICK/CMU TO CONCEAL MASONRY VOIDS AT RECESSED AREAS

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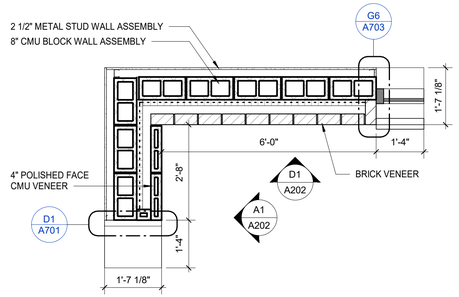
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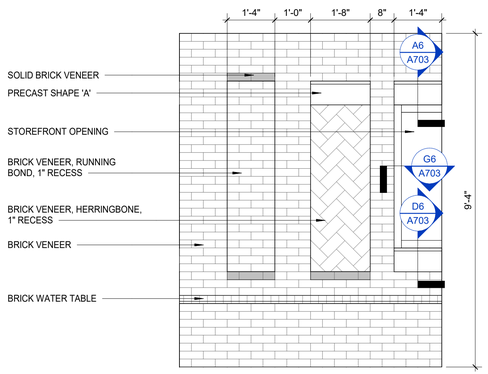
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ENLARGED BUILDING ELEVATIONS

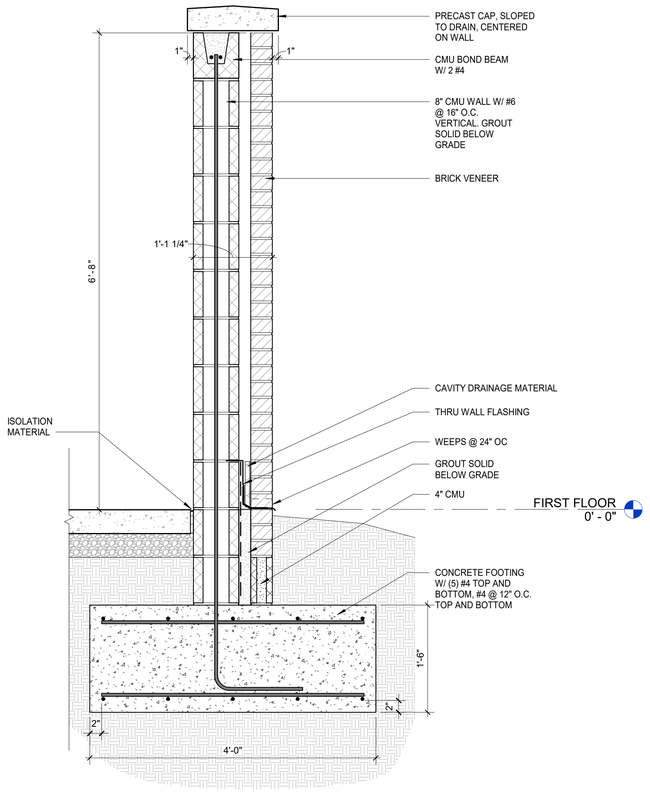
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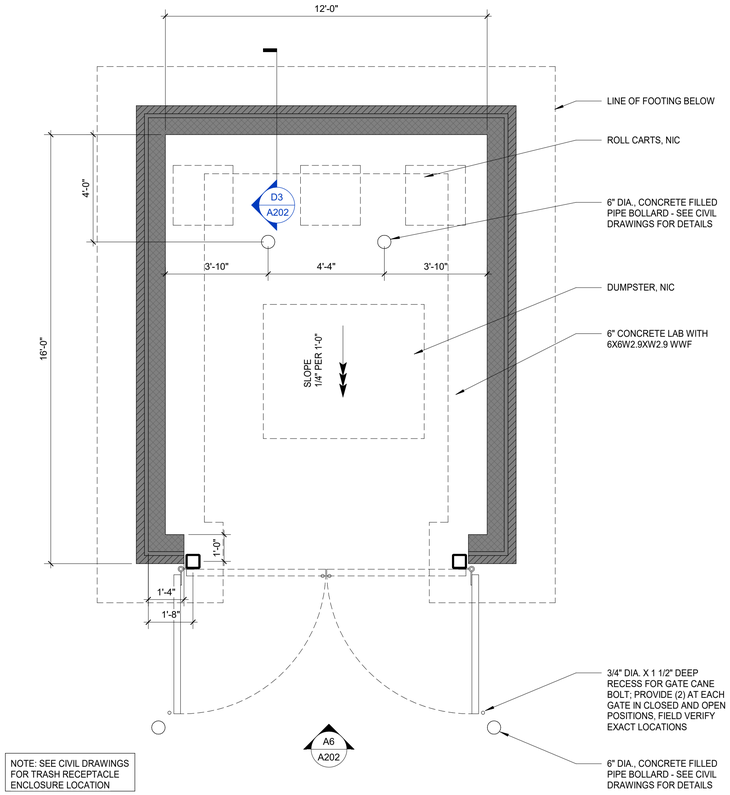
G1 FLOOR PLAN - MOCKUP WALL
1/2" = 1'-0"



D1 EAST ELEVATION - MOCKUP WALL
1/2" = 1'-0"

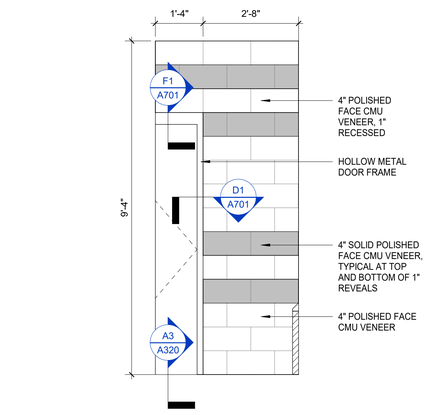


D3 TRASH ENCLOSURE WALL SECTION
1" = 1'-0"

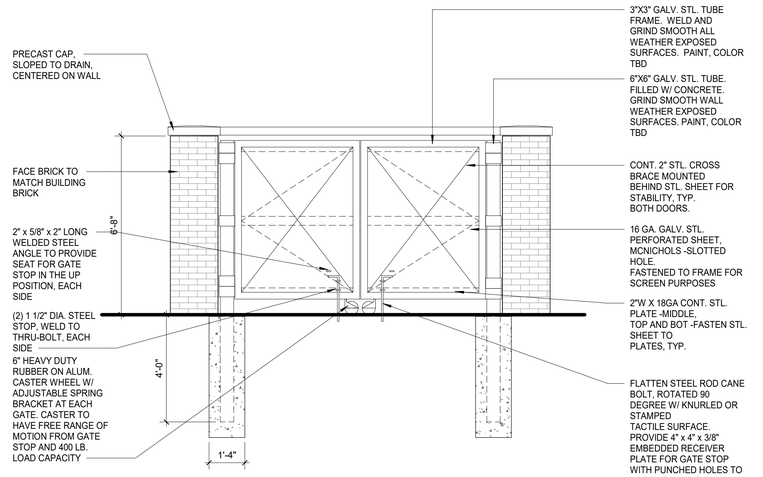


NOTE: SEE CIVIL DRAWINGS FOR TRASH RECEPTACLE ENCLOSURE LOCATION

D6 ENLARGED TRASH ENCLOSURE PLAN
3/8" = 1'-0"



A1 SOUTH ELEVATION - MOCKUP WALL
1/2" = 1'-0"



A6 TRASH ENCLOSURE ELEVATION
3/8" = 1'-0"

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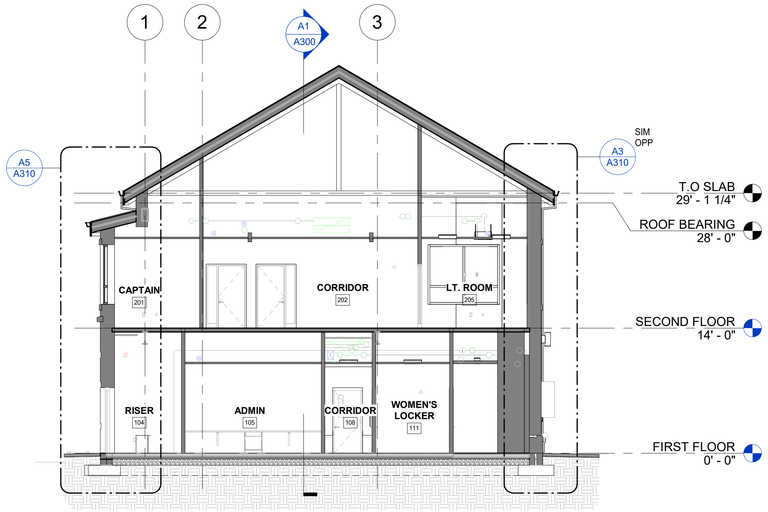
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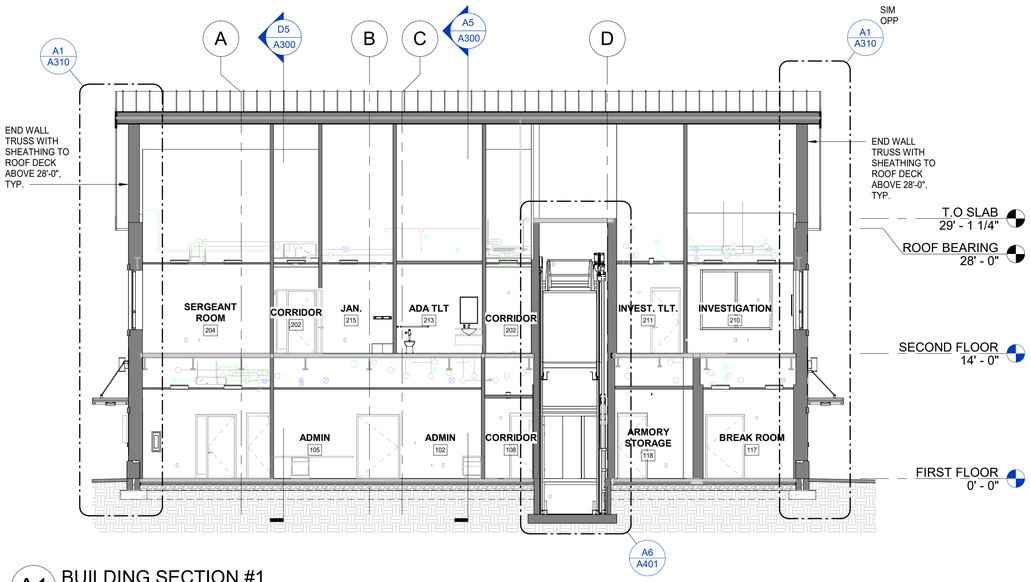
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SHEET TITLE
MOCKUP WALL & TRASH ENCLOSURE DETAILS

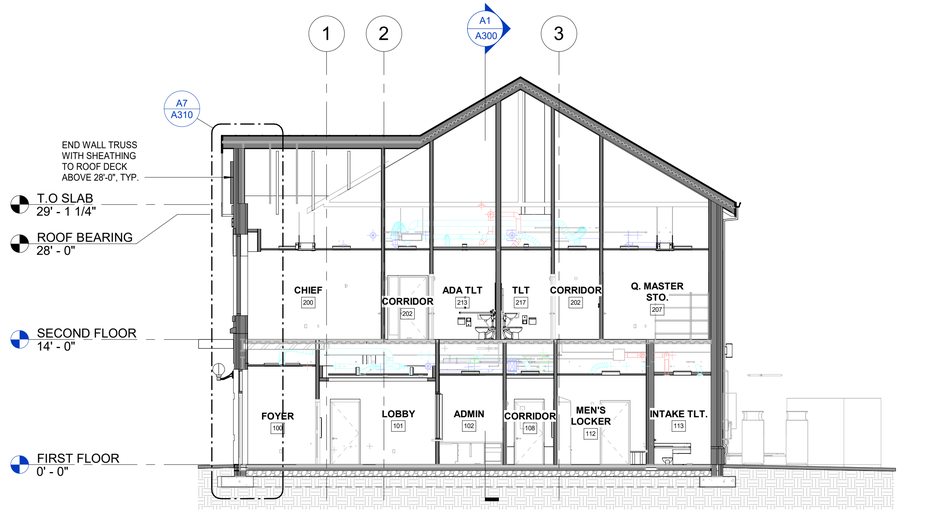
A202



D5 BUILDING SECTION #3
1/8" = 1'-0"



A1 BUILDING SECTION #1
1/8" = 1'-0"



A5 BUILDING SECTION #2
1/8" = 1'-0"

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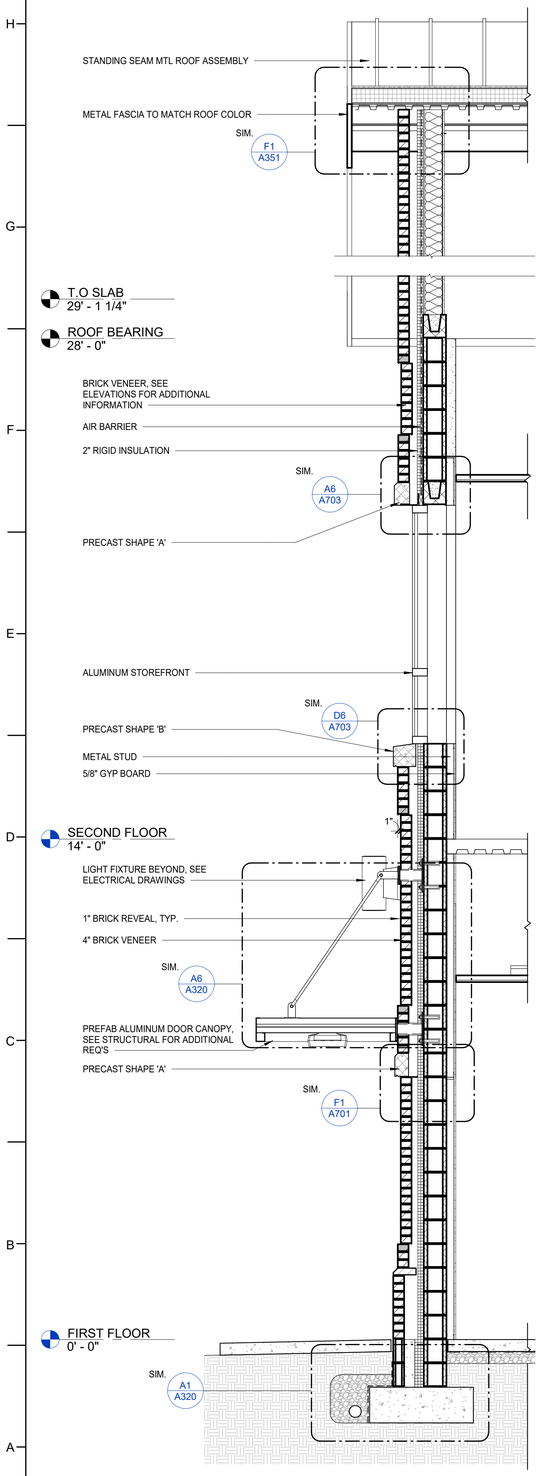
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Drawn By: BJM
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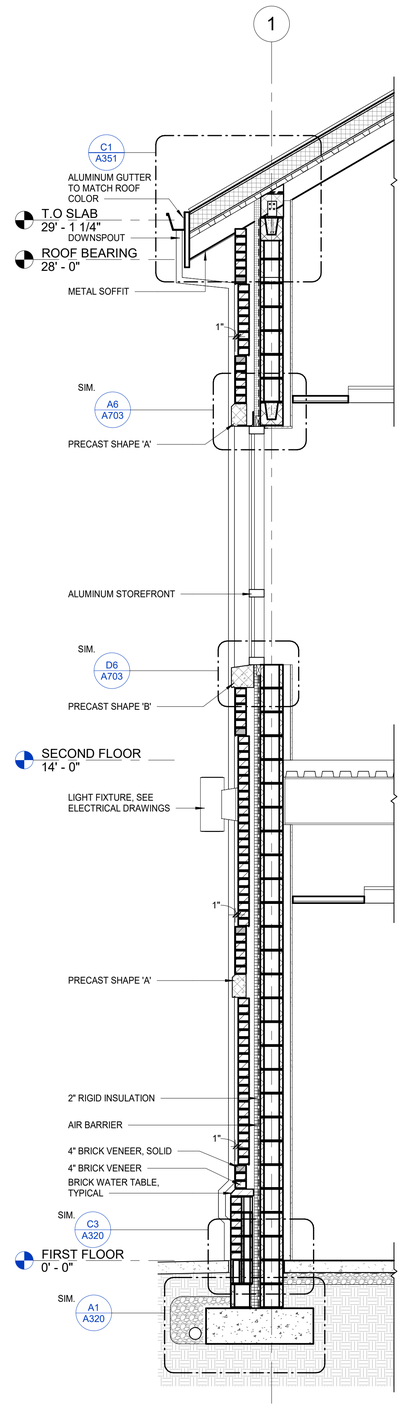
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SHEET TITLE
BUILDING SECTIONS

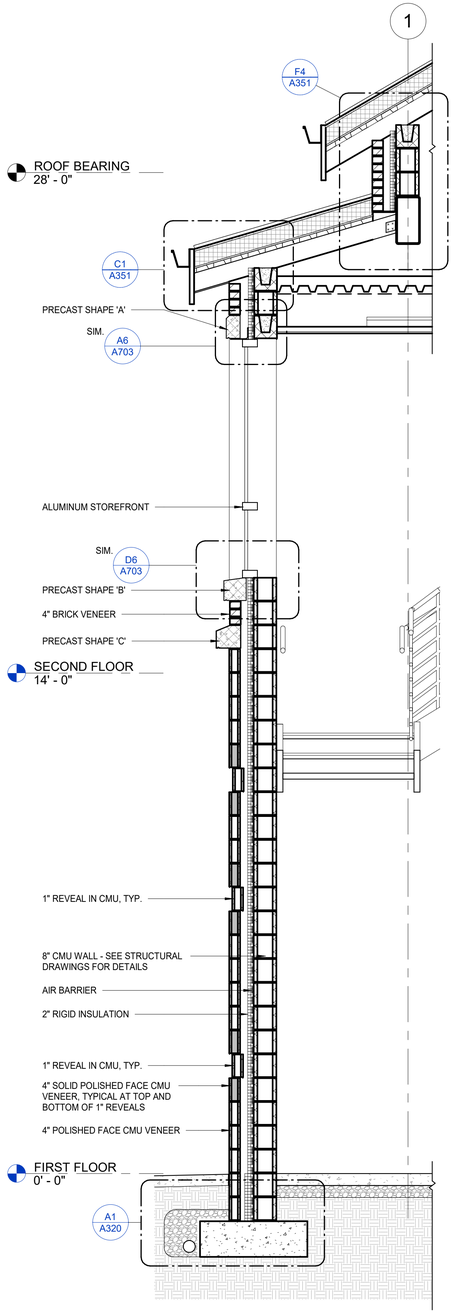
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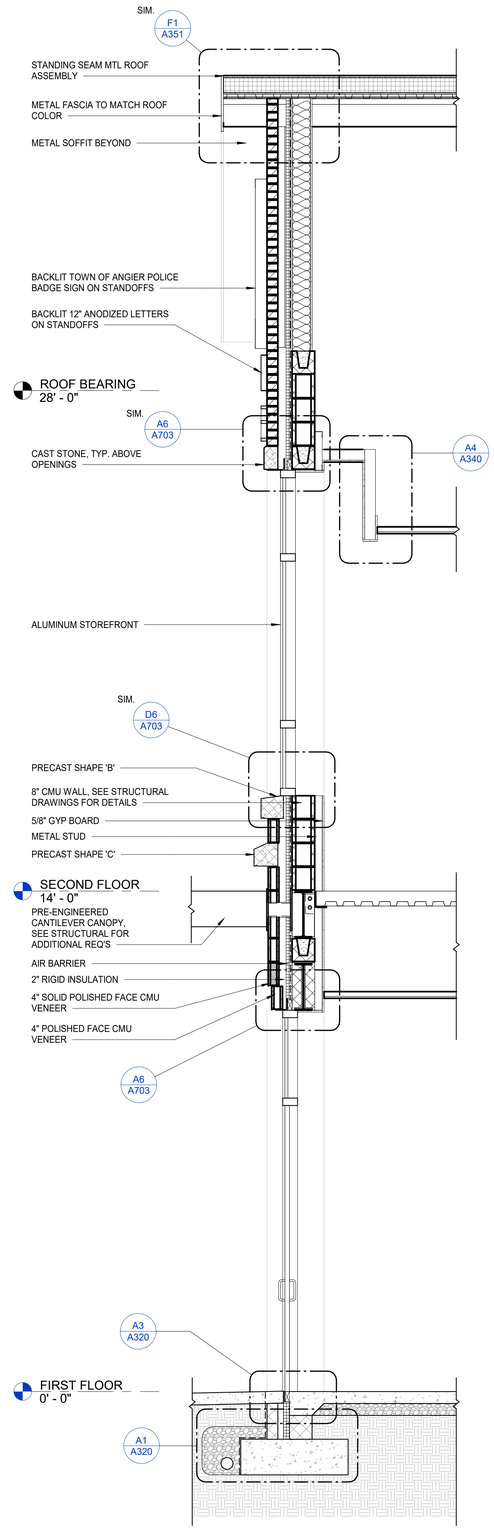
A1 WALL SECTION #1
1/2" = 1'-0"



A3 WALL SECTION #2
1/2" = 1'-0"



A5 WALL SECTION #3
1/2" = 1'-0"



A7 WALL SECTION #4
1/2" = 1'-0"

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

DAVIS KANE ARCHITECTS, P.A. 50304 REGISTERED ARCHITECTURAL CORPORATION NORTH CAROLINA RALEIGH, N.C.

JIMMY ARDEL EDWARDS REGISTERED ARCHITECT 13823 NORTH CAROLINA RALEIGH, N.C.

DKA JOB NUMBER
2418

REVISIONS

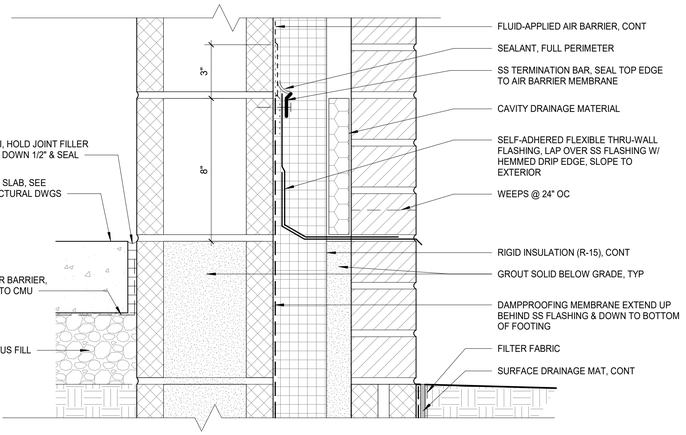
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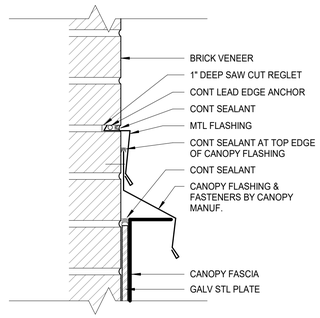
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WALL SECTIONS

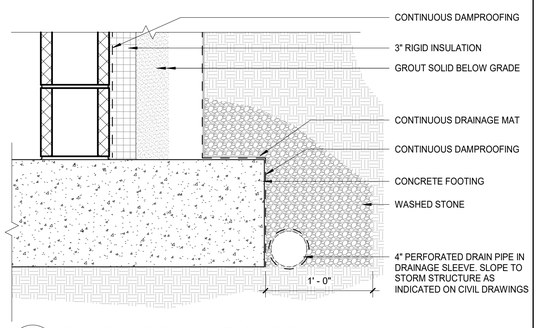
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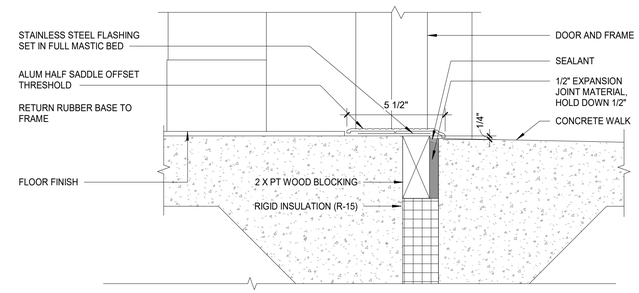
C3 TYP BASE OF WALL FLASHING
3" = 1'-0"



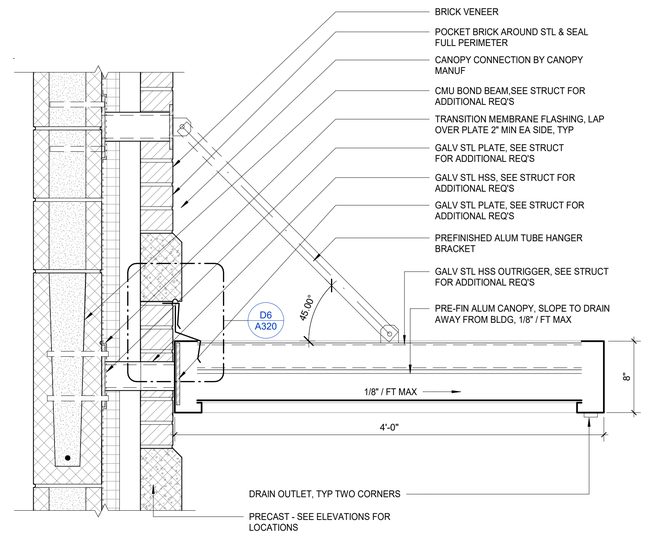
D6 CANOPY FLASHING SECTION
3" = 1'-0"



A1 TYPICAL FOUNDATION DRAIN
1 1/2" = 1'-0"



A3 EXTERIOR THRESHOLD
3" = 1'-0"



A6 CANOPY ELEVATION AT MASONRY WALL
1 1/2" = 1'-0"

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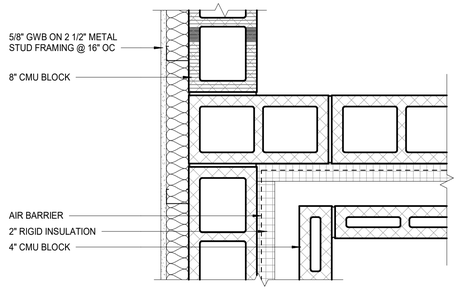
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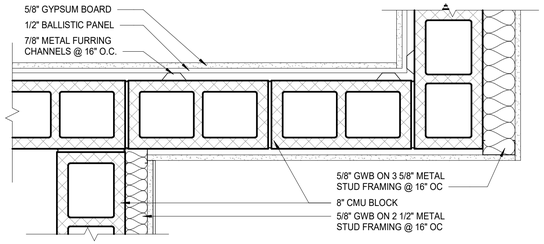
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SECTION DETAILS

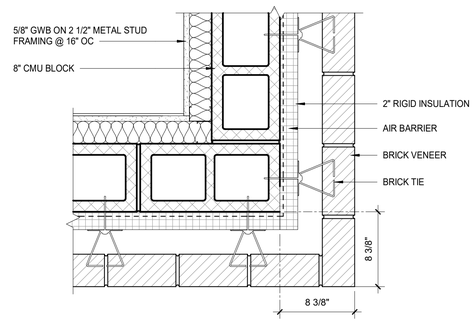
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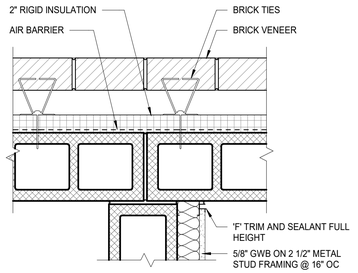
G1 PLAN DETAIL @ FOYER
1 1/2" = 1'-0"



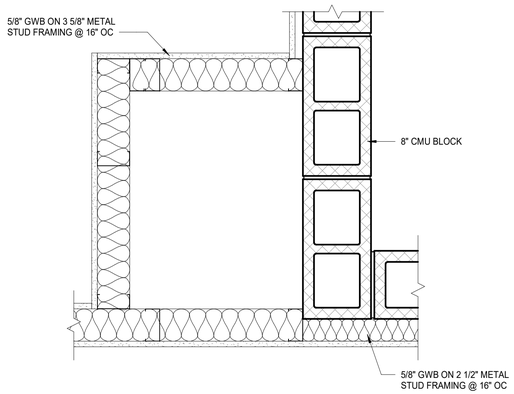
G3 PLAN DETAIL @ ARMORY STORAGE
1 1/2" = 1'-0"



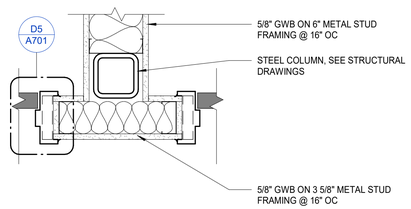
E1 PLAN DETAIL @ BREAK ROOM
1 1/2" = 1'-0"



E3 PLAN DETAIL @ INTERVIEW ROOM
1 1/2" = 1'-0"



B1 PLAN DETAIL @ MEN'S LOCKER
1 1/2" = 1'-0"



A1 PLAN DETAIL @ WOMEN'S LOCKER
1 1/2" = 1'-0"

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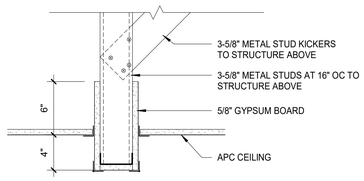
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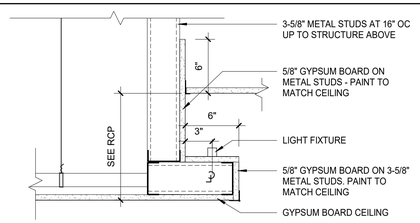
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PLAN DETAILS

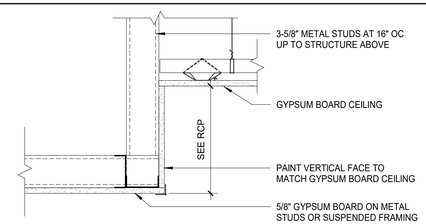
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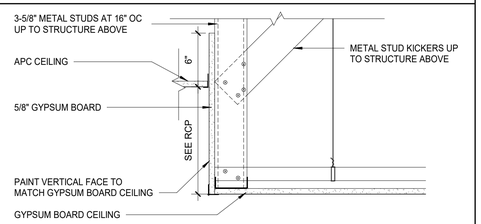
E1 SECTION DETAIL - GWB BULKHEAD TO APC, SINGLE STUD DETAIL
1 1/2" = 1'-0"



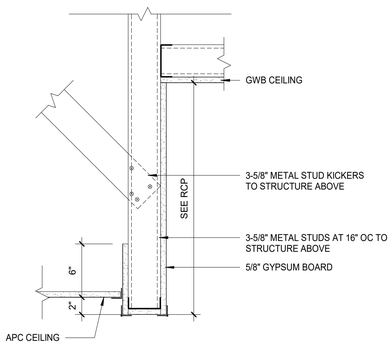
D1 SECTION DETAIL - COVE LIGHT GWB BULKHEAD TO GWB DETAIL
1 1/2" = 1'-0"



B1 SECTION DETAIL - GWB BULKHEAD TO GWB DETAIL
1 1/2" = 1'-0"



A1 SECTION DETAIL - GWB BULKHEAD TO APC DETAIL
1 1/2" = 1'-0"



A4 SECTION DETAIL - GWB BULKHEAD TO GWB & APC, SINGLE STUD DETAIL
1 1/2" = 1'-0"

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JIMMY ARDEL EDWARDS — REGISTERED ARCHITECT — 13823 — 05.02.25 — NORTH CAROLINA — RALEIGH, N.C.

DKA JOB NUMBER
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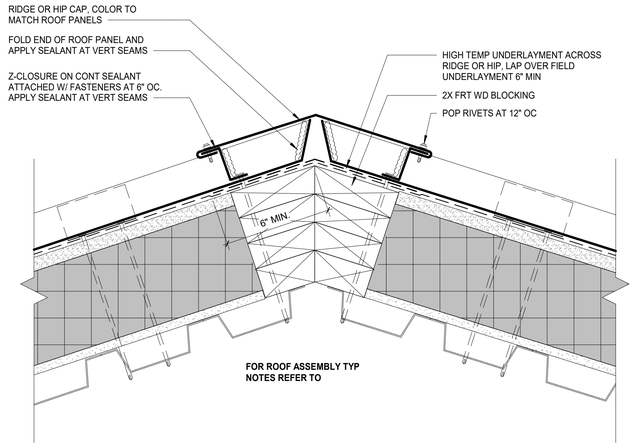
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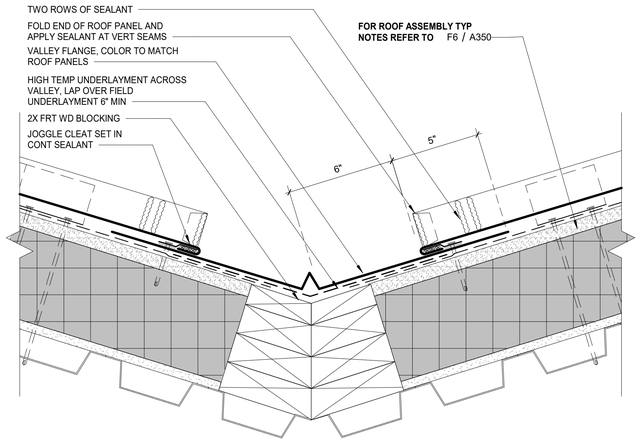
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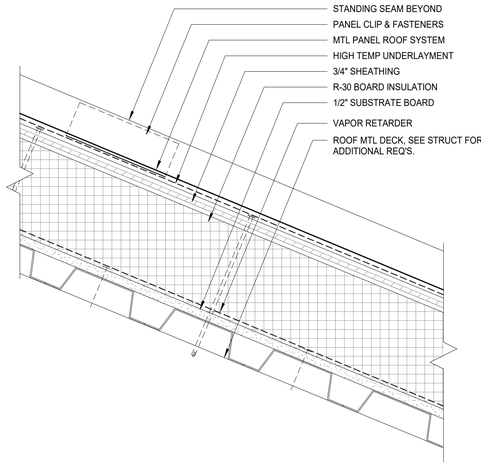
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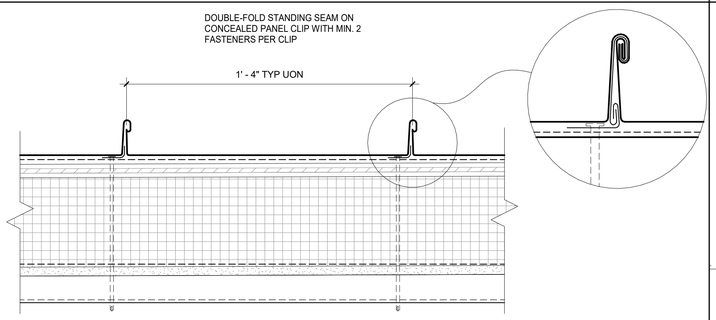
F1 TYP. ROOF RIDGE DETAIL
3" = 1'-0"



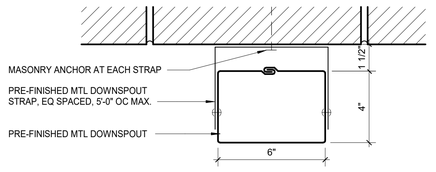
F4 TYP. ROOF VALLEY DETAIL
3" = 1'-0"



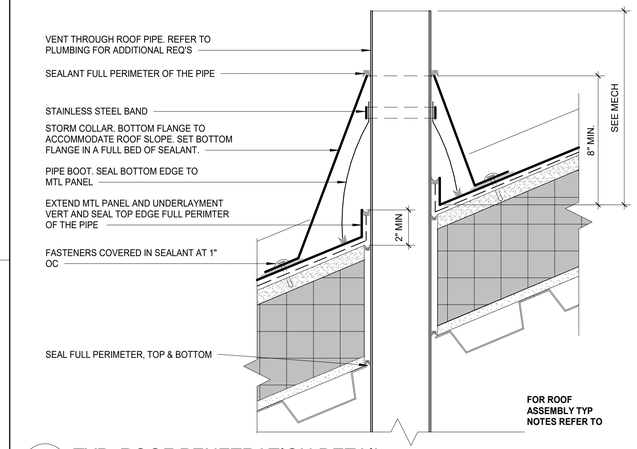
F6 TYP ROOF ASSEMBLY SECTION
3" = 1'-0"



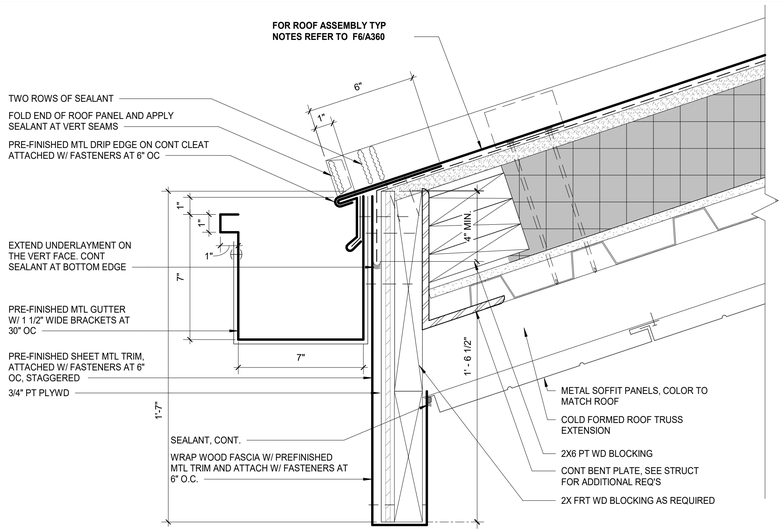
D1 TYP ROOF ASSEMBLY CROSS SECTION
3" = 1'-0"



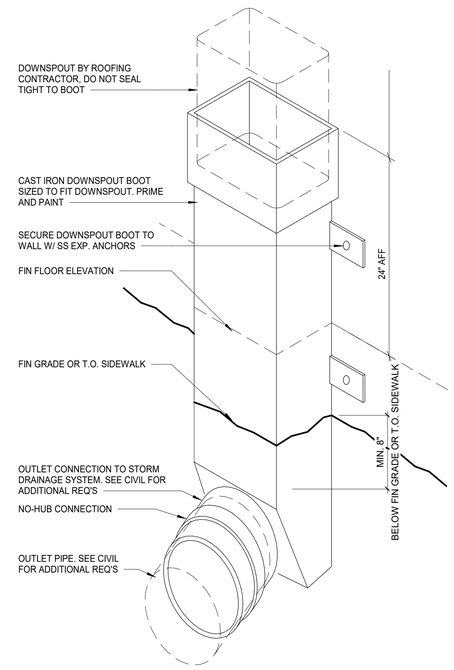
D4 TYP. DOWNSPOUT DETAIL
3" = 1'-0"



C6 TYP. ROOF PENETRATION DETAIL
3" = 1'-0"



A1 TYP GUTTER DETAIL
3" = 1'-0"



A4 TYP. DOWNSPOUT BOOT DETAIL
3" = 1'-0"

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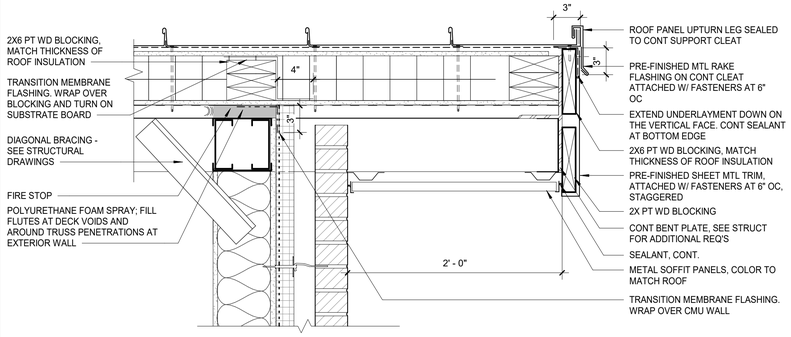
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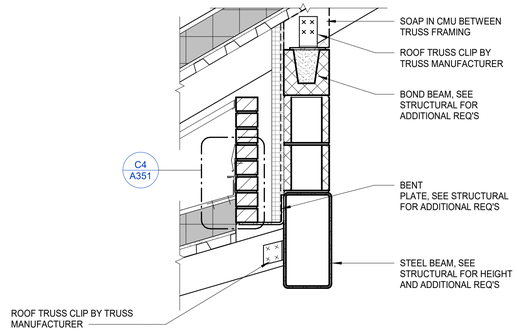
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SHEET TITLE
ROOF DETAILS

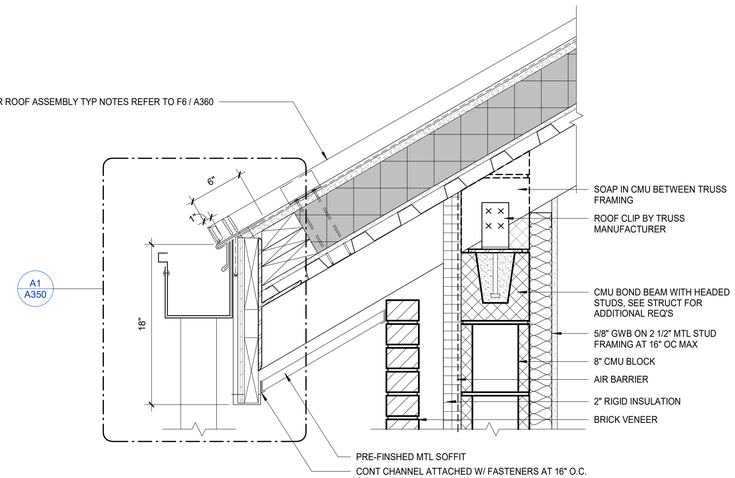
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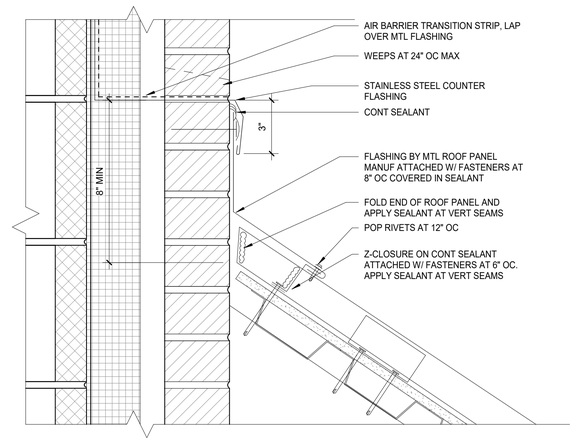
F1 ROOF OVERHANG DETAIL AT CMU
1 1/2" = 1'-0"



F4 LOWER ROOF HEADWALL
1" = 1'-0"



C1 TYP ROOF EAVE DETAIL
1 1/2" = 1'-0"



C4 HEADWALL FLASHING AT CANOPY DETAIL
3" = 1'-0"

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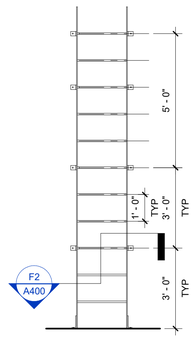
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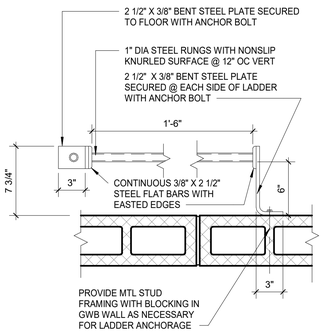
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SHEET TITLE
ROOF DETAILS

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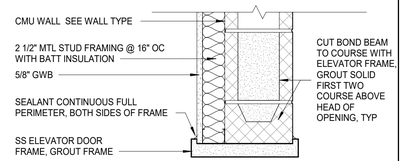


F1 ELEVATOR LADDER
3/8" = 1'-0"

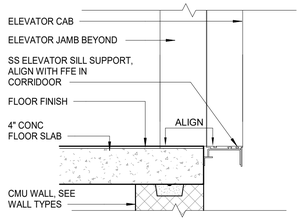


SECTION OF LADDER
1 1/2" = 1'-0"

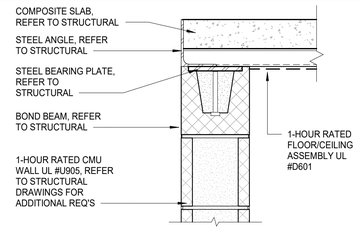
F2 TYP LADDER DETAIL AT ELEVATOR SHAFT
1 1/2" = 1'-0"



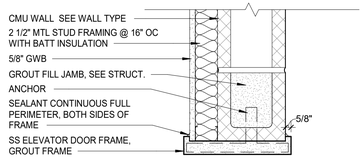
G3 TYP ELEV DOOR HEAD DETAIL
1 1/2" = 1'-0"



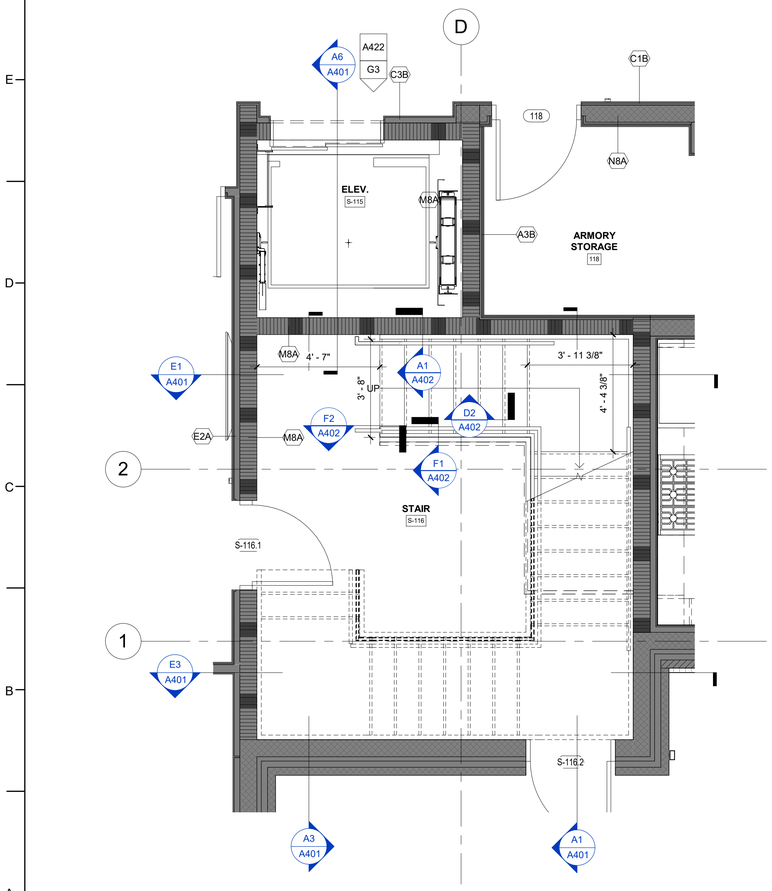
F3 TYP ELEV DOOR SILL DETAIL
1 1/2" = 1'-0"



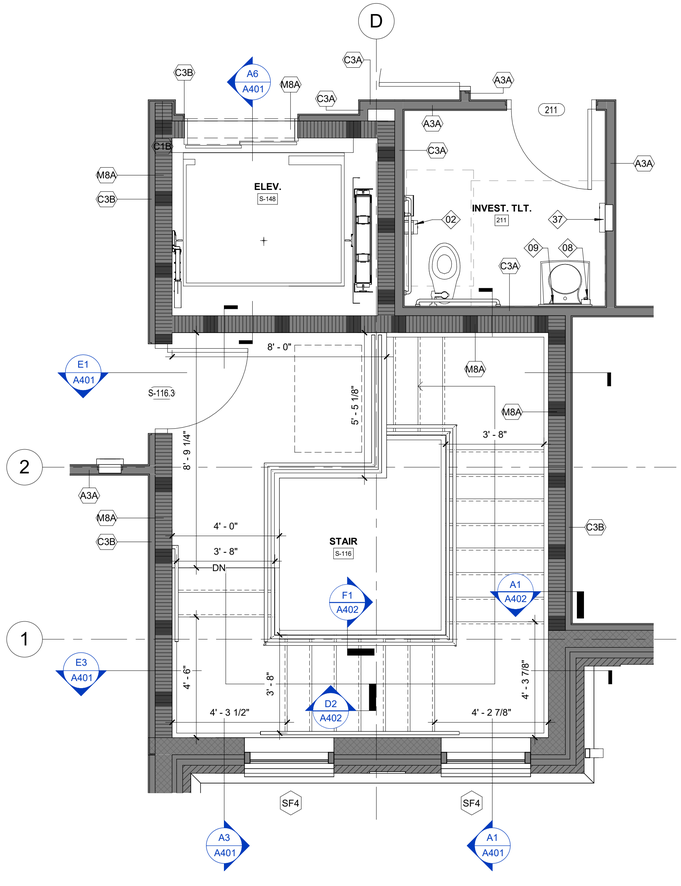
G5 ELEVATOR SLAB DETAIL
1 1/2" = 1'-0"



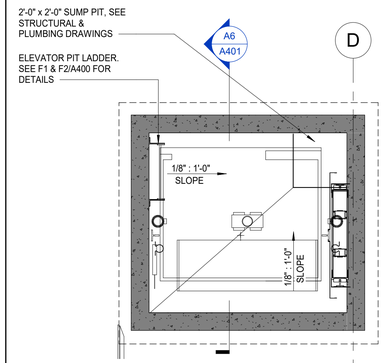
F5 TYP ELEV DOOR JAMB DETAIL
1 1/2" = 1'-0"



A1 ENLARGED FLOOR PLAN - FIRST FLOOR STAIR & ELEVATOR
3/8" = 1'-0"



A4 ENLARGED FLOOR PLAN - SECOND FLOOR STAIR & ELEVATOR
3/8" = 1'-0"



D7 ELEVATOR PIT FLOOR PLAN
3/8" = 1'-0"

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier
29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

DAVIS KANE ARCHITECTS, P.A. REGISTERED ARCHITECTURE CORPORATION 50304 NORTH CAROLINA RALEIGH, N.C.

JIMMY ARDEL EDWARDS REGISTERED LANDSCAPE ARCHITECT 13823 05.02.25 NORTH CAROLINA RALEIGH, N.C.

DKA JOB NUMBER
2418

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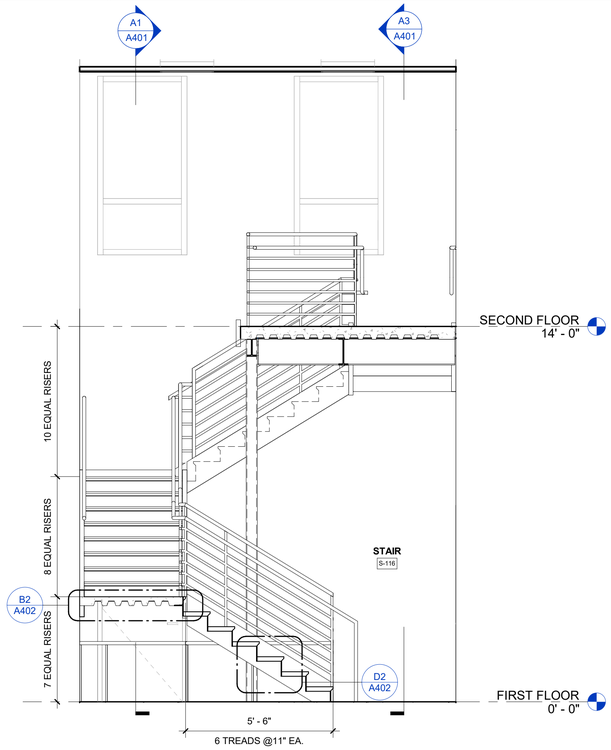
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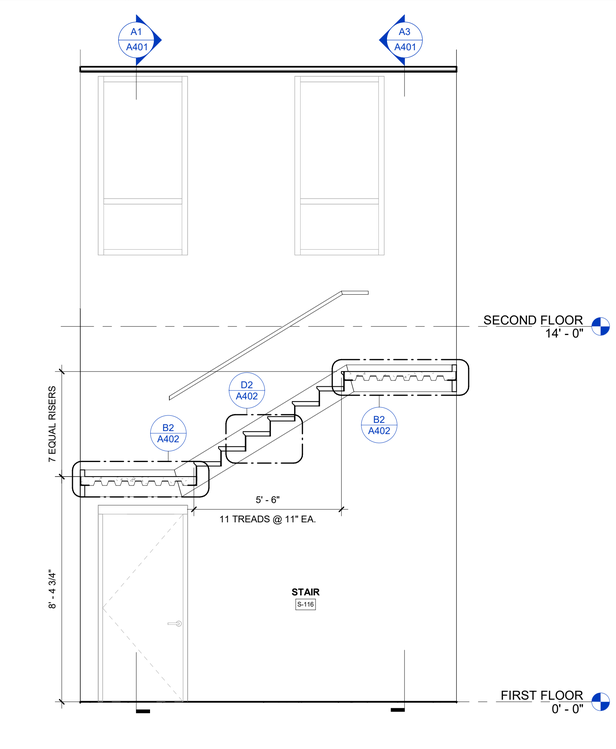
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SHEET TITLE
ENLARGED STAIR AND ELEVATOR PLANS

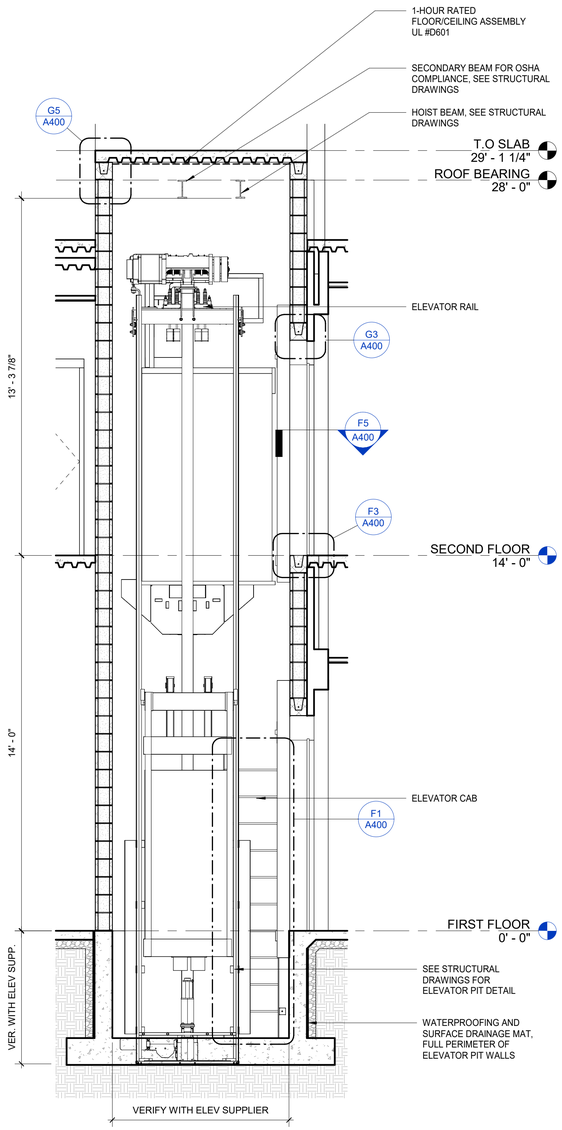
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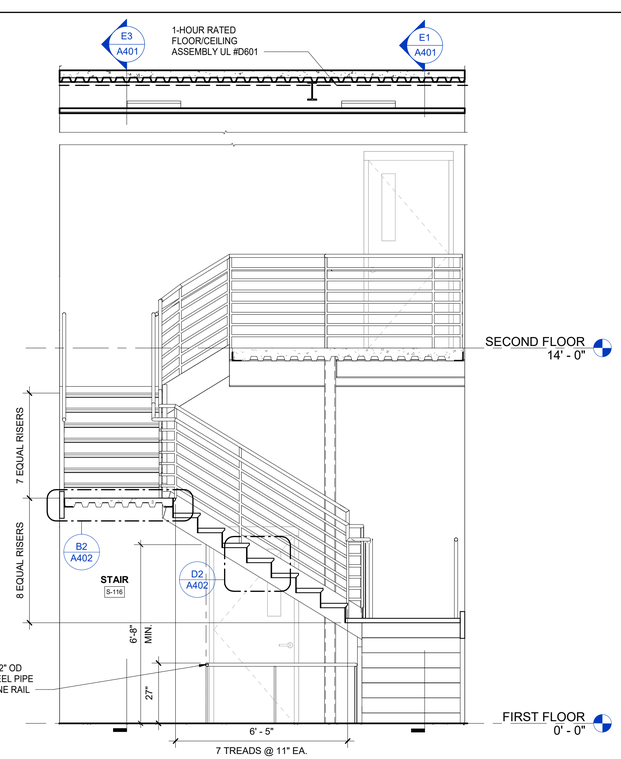
E1 SECTION - STAIR S1
3/8" = 1'-0"



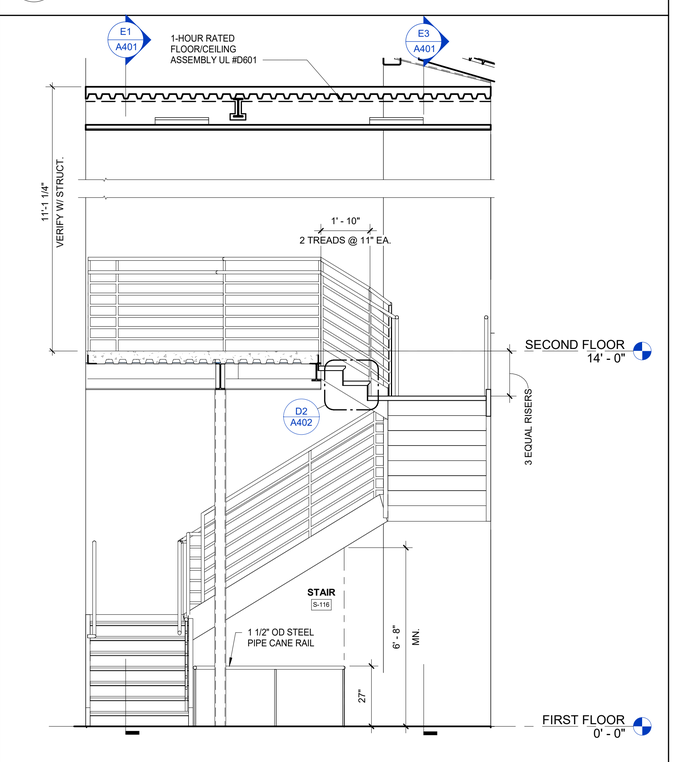
E3 SECTION - STAIR S3
3/8" = 1'-0"



A6 SECTION - ELEVATOR
3/8" = 1'-0"



A1 SECTION - STAIR S2
3/8" = 1'-0"



A3 SECTION - STAIR S4
3/8" = 1'-0"

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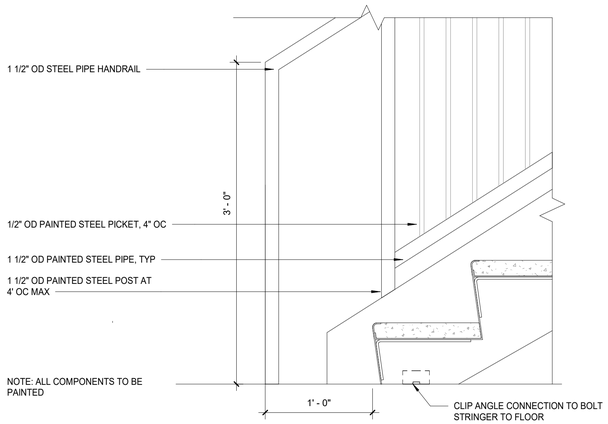
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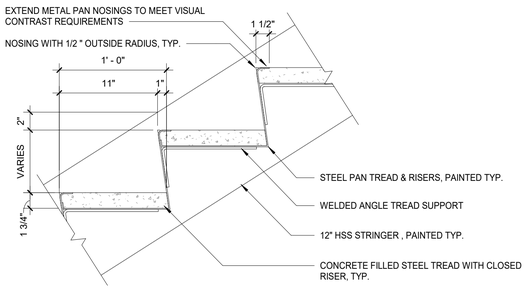
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SHEET TITLE
STAIR & ELEVATOR SECTIONS

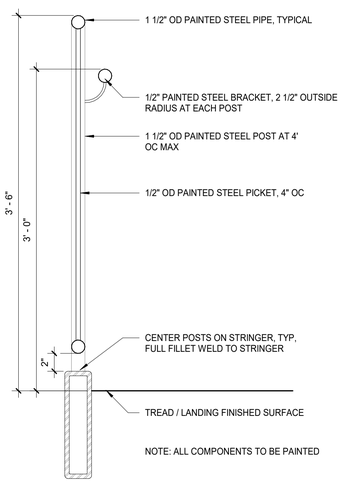
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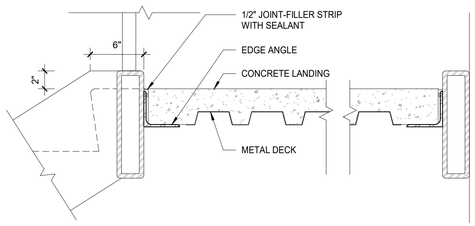
F2 TYP STAIR @ BOTTOM LANDING
1 1/2" = 1'-0"



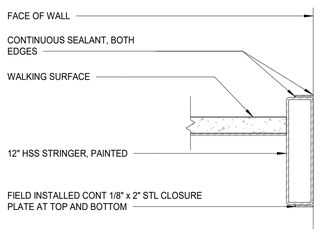
D2 TYP STAIR @ TREAD
1 1/2" = 1'-0"



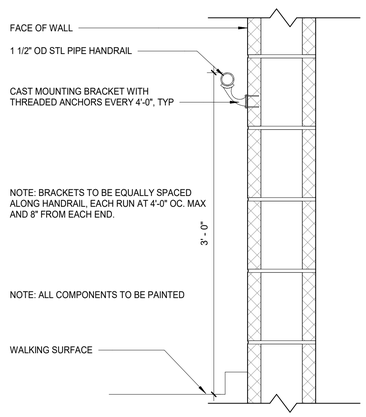
F1 TYP STAIR - MTL MESH GUARDRAIL SECTION
1 1/2" = 1'-0"



B2 TYP STAIR @ INTERMEDIATE LANDING
1 1/2" = 1'-0"



A2 TYP STRINGER SECTION
1 1/2" = 1'-0"



A1 TYP WALL MTD HANDRAIL
1 1/2" = 1'-0"

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JIMMY ARDEL EDWARDS — REGISTERED ARCHITECT — 13823 — 05.02.25 — NORTH CAROLINA — RALEIGH, N.C.

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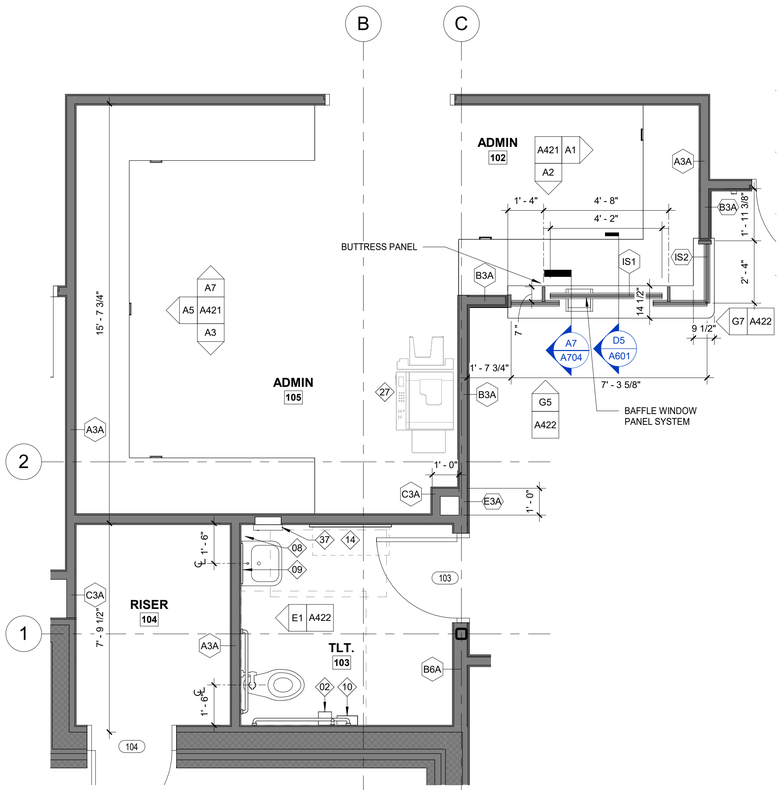
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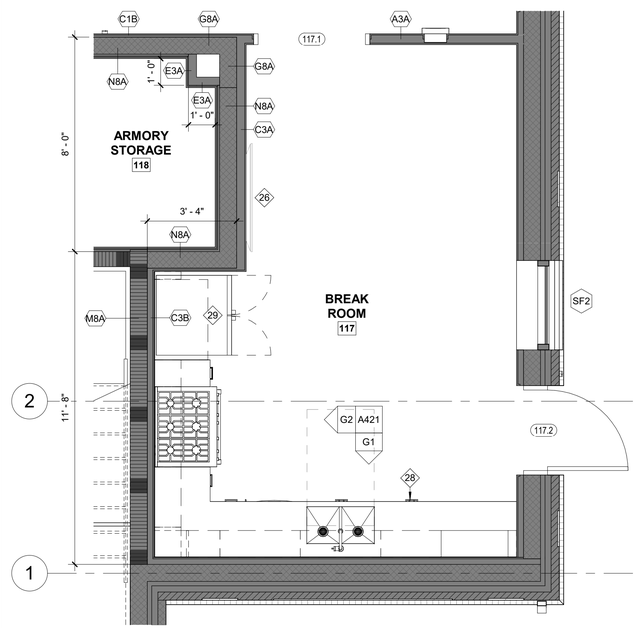
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SHEET TITLE
STAIR DETAILS

A402



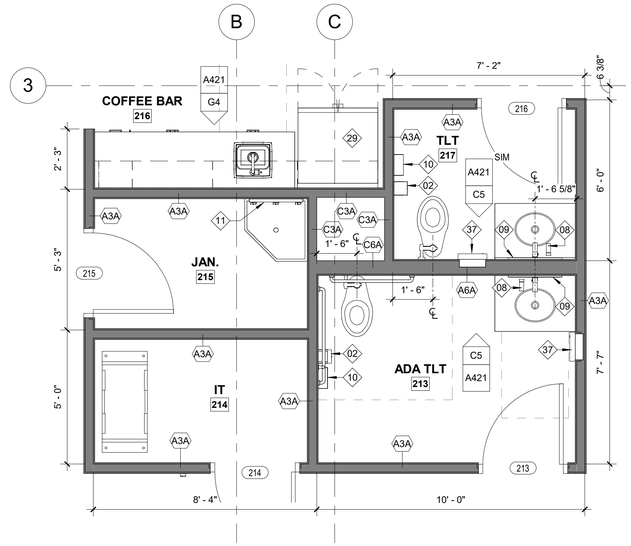
D1 ENLARGED ADMIN PLAN
3/8" = 1'-0"



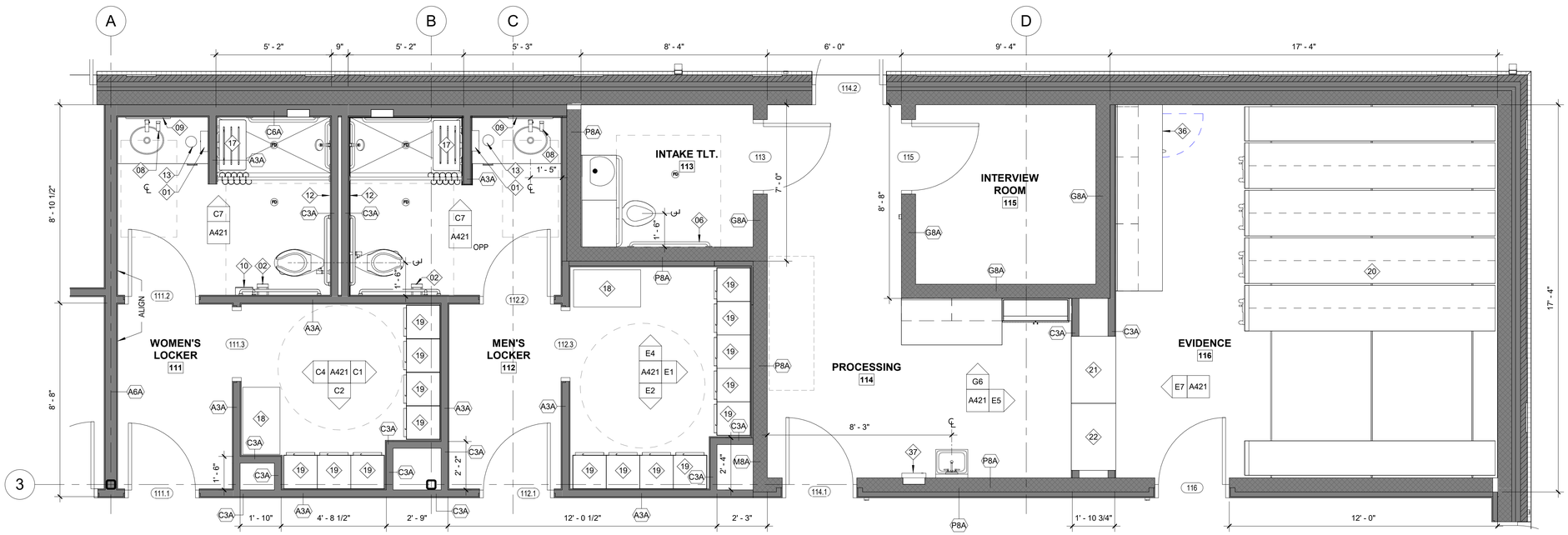
D4 ENLARGED BREAK ROOM PLAN
3/8" = 1'-0"

ENLARGED PLAN & INTERIOR ELEVATION GENERAL NOTES

1. SEE SHEET A001 FOR TOILET ACCESSORIES, TYPICAL MOUNTING HEIGHTS AND ADDITIONAL REQ.
2. FOR FF&E SCHEDULE SEE A002.
3. CLEAR DIMENSIONS ARE FROM FINISH FACE OF THE WALL TO FINISH FACE OF THE WALL OR PARTITION.
4. PROVIDE 2X SOLID WOOD BLOCKING CONCEALED IN METAL STUD WALL CONSTRUCTION FOR WALL-MOUNTED FIXTURES, FURNISHINGS, EQUIPMENT AND ACCESSORIES.



D7 ENLARGED BATHROOM & COFFEE BAR PLAN
3/8" = 1'-0"



A1 ENLARGED LOCKER ROOM & EVIDENCE PLAN
3/8" = 1'-0"

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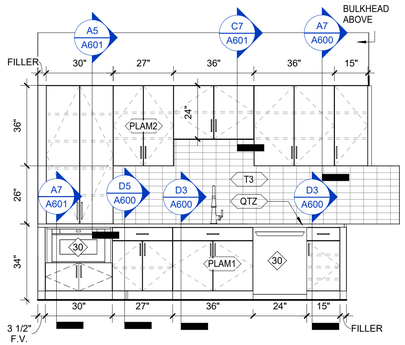
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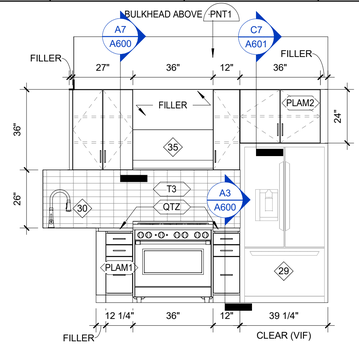
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SHEET TITLE
ENLARGED PLANS

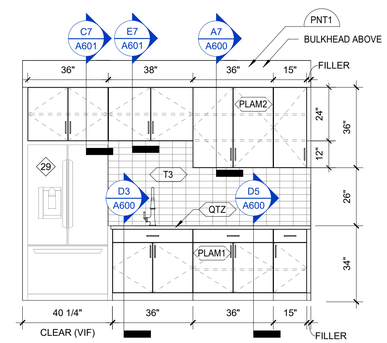
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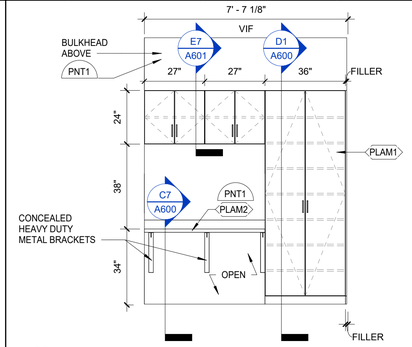
G1 ELEVATION - BREAK ROOM VIEW 1
3/8" = 1'-0"



G2 ELEVATION - BREAK ROOM VIEW 2
3/8" = 1'-0"



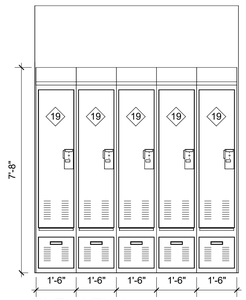
G4 ELEVATION - COFFEE BAR
3/8" = 1'-0"



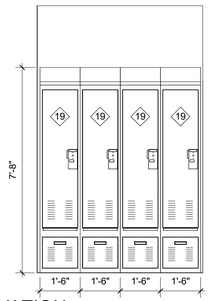
G6 ELEVATION - EVIDENCE PROCESSING
3/8" = 1'-0"

ENLARGED PLAN & INTERIOR ELEVATION GENERAL NOTES

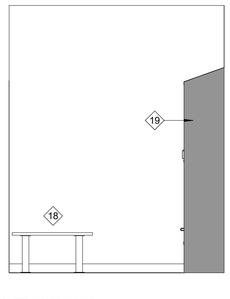
1. SEE SHEET A001 FOR TOILET ACCESSORIES, TYPICAL MOUNTING HEIGHTS AND ADDITIONAL REQ.
2. FOR FF&E SCHEDULE SEE A002.
3. CLEAR DIMENSIONS ARE FROM FINISH FACE OF THE WALL TO FINISH FACE OF THE WALL OR PARTITION.
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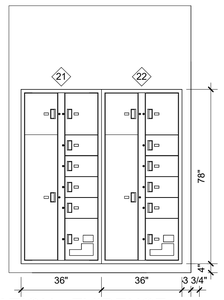
E1 ELEVATION - MEN'S LOCKER ROOM VIEW 1
3/8" = 1'-0"



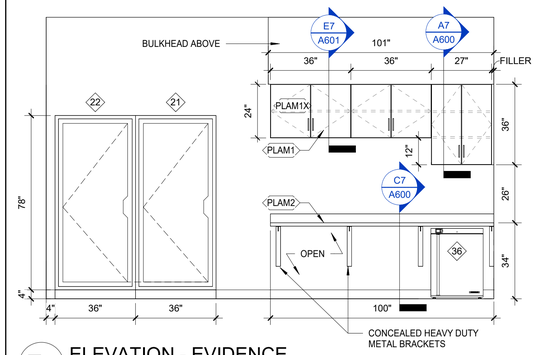
E2 ELEVATION - MEN'S LOCKER ROOM VIEW 2
3/8" = 1'-0"



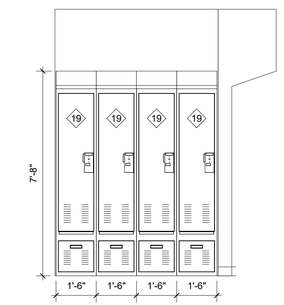
E4 ELEVATION - MEN'S LOCKER ROOM VIEW 3
3/8" = 1'-0"



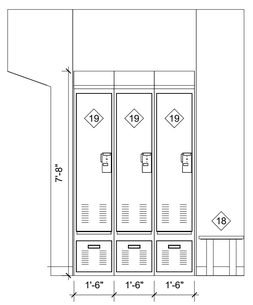
E5 ELEVATION - EVIDENCE PASS-THROUGH LOCKERS
3/8" = 1'-0"



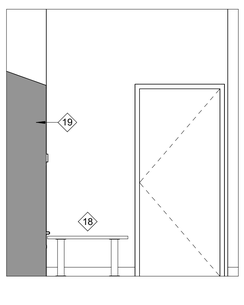
E7 ELEVATION - EVIDENCE
3/8" = 1'-0"



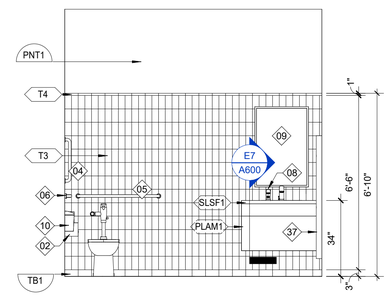
C1 ELEVATION - WOMEN'S LOCKER ROOM VIEW 1
3/8" = 1'-0"



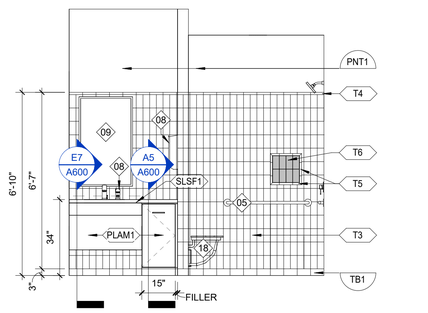
C2 ELEVATION - WOMEN'S LOCKER ROOM VIEW 2
3/8" = 1'-0"



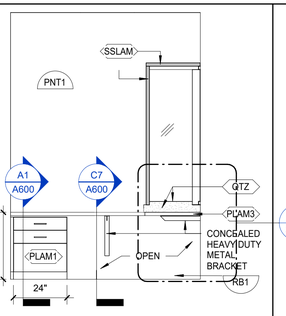
C4 ELEVATION - WOMEN'S LOCKER ROOM VIEW 3
3/8" = 1'-0"



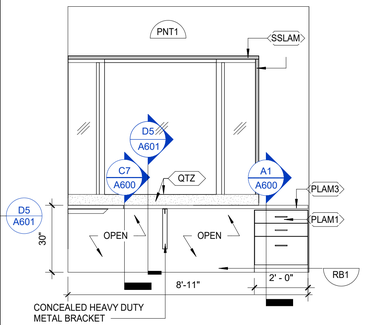
C5 ELEVATION - TOILET 213
3/8" = 1'-0"



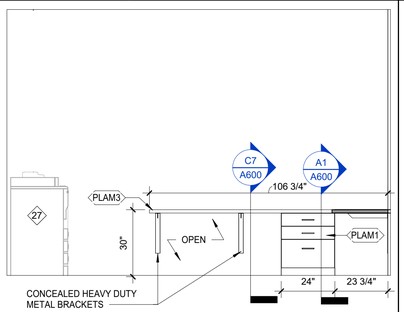
C7 ELEVATION - LOCKER ROOM TOILET VIEW 2
3/8" = 1'-0"



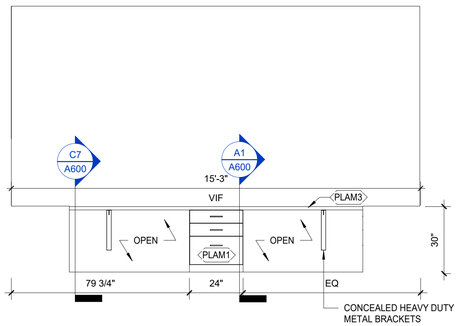
A1 ELEV. - ADMIN 102 VIEW 1
3/8" = 1'-0"



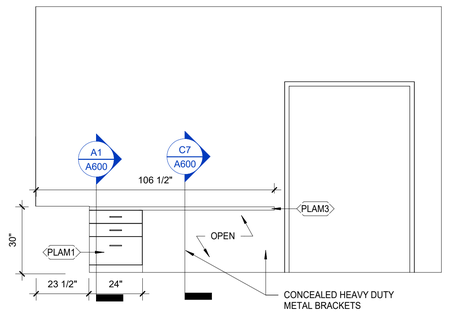
A2 ELEVATION - ADMIN 102 VIEW 2
3/8" = 1'-0"



A3 ELEVATION - ADMIN 105 VIEW 1
3/8" = 1'-0"



A5 ELEVATION - ADMIN 105 VIEW 2
3/8" = 1'-0"



A7 ELEVATION - ADMIN 105 VIEW 3
3/8" = 1'-0"

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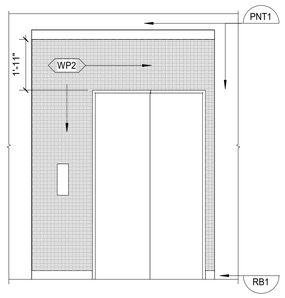
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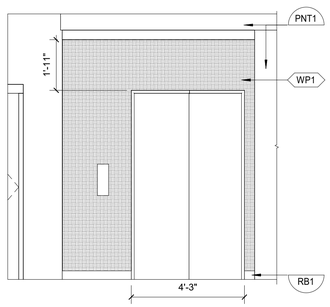
PERMIT DRAWINGS
05/02/25

SHEET TITLE
INTERIOR ELEVATIONS

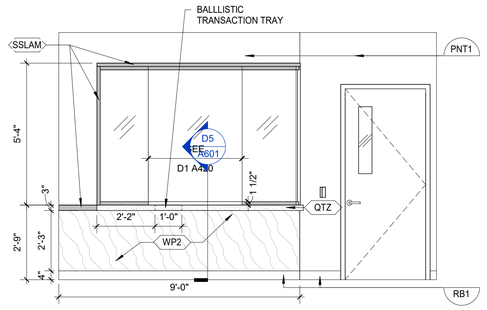
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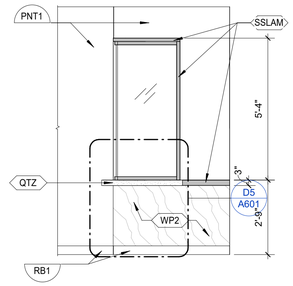
G1 ELEVATION - HALLWAY 1ST FLOOR
3/8" = 1'-0"



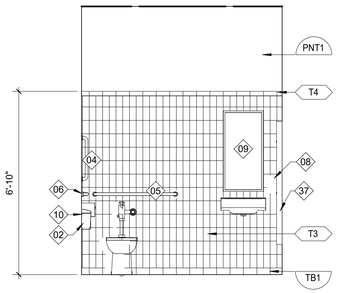
G3 ELEVATION - HALLWAY 2ND FLOOR
3/8" = 1'-0"



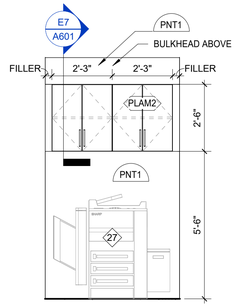
G5 ELEVATION - RECEPTION VIEW 1
3/8" = 1'-0"



G7 ELEVATION - RECEPTION VIEW 2
3/8" = 1'-0"



E1 INTERIOR ELEVATION - TOILET 103
3/8" = 1'-0"



E3 ELEVATION - PRINT NOOK 2ND FLOOR
3/8" = 1'-0"

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SEALS

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JIMMY ARDEL EDWARDS · REGISTERED · 13823 · 05.02.25 · NORTH CAROLINA · RALEIGH, N.C.

DKA JOB NUMBER
2418

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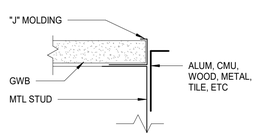
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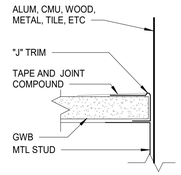
PERMIT DRAWINGS
05/02/25

SHEET TITLE
INTERIOR ELEVATIONS

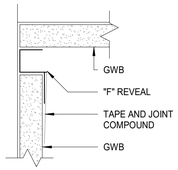
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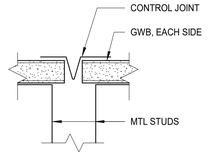
E1 GWB "J" MOLDING, TYP
6" = 1'-0"



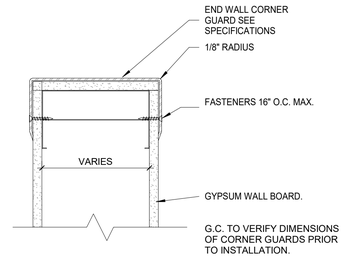
E2 GWB "J-TRIM" TYP
6" = 1'-0"



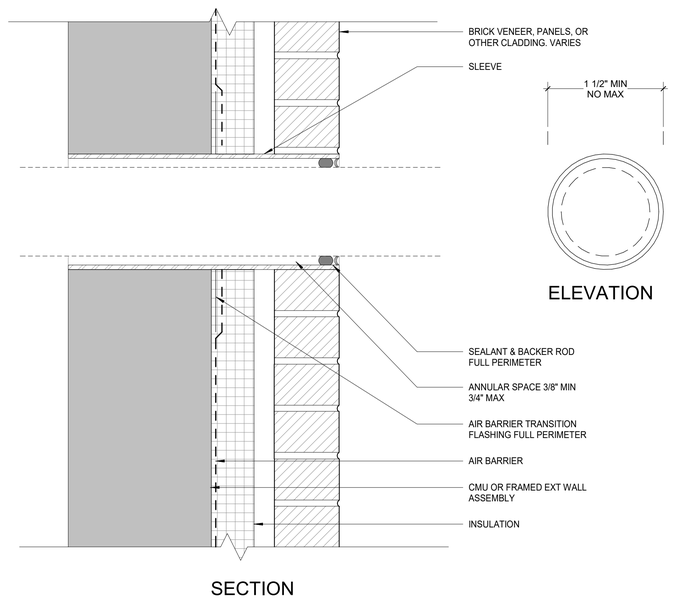
E4 GWB "F-REVEAL" TYP
6" = 1'-0"



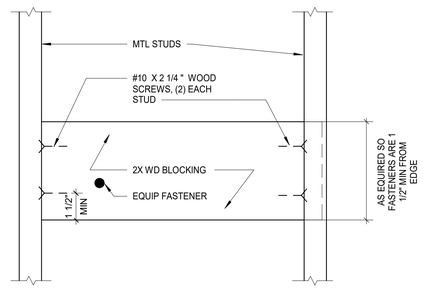
E5 GWB CONTROL JOINT DETAIL
6" = 1'-0"



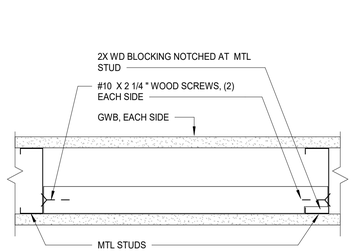
E7 180-DEGREE CORNER GUARD DETAIL
3" = 1'-0"



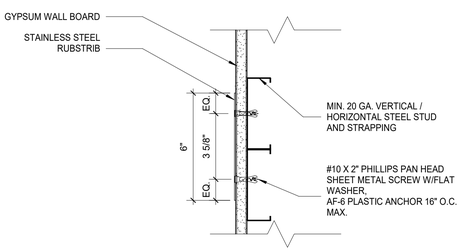
A4 TYP EXT. WALL PENETRATION - SLEEVED, ROUND
3" = 1'-0"



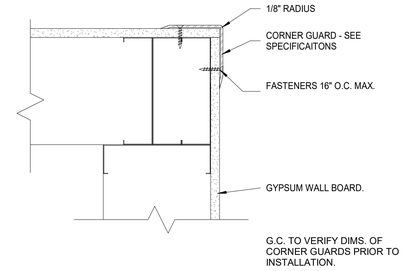
C5 WOOD BLOCKING IN GWB WALL, TYP, ELEV
3" = 1'-0"



A5 WOOD BLOCKING IN GWB WALL, TYP, PLAN
3" = 1'-0"



C7 TYP. WALL PROTECTION DETAIL
3" = 1'-0"



A7 CORNER GUARD DETAIL
3" = 1'-0"

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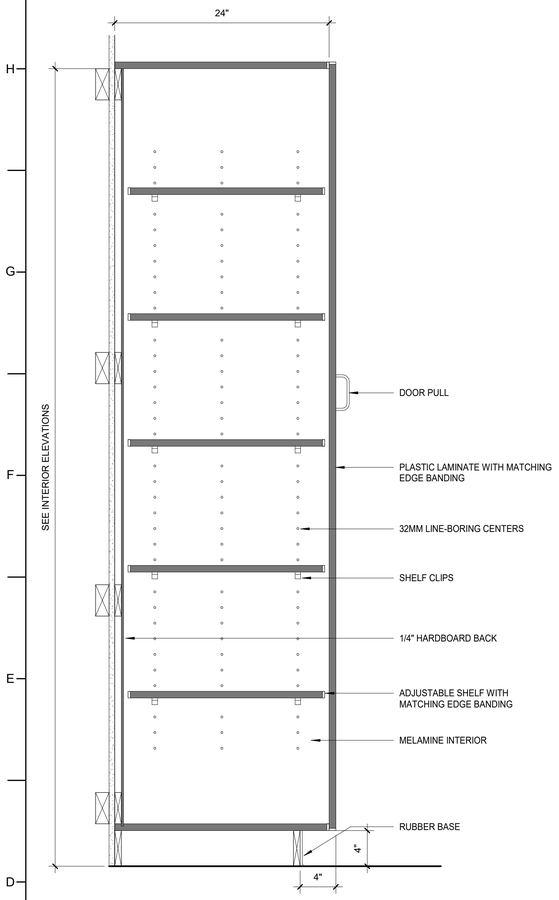
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PM: BJM
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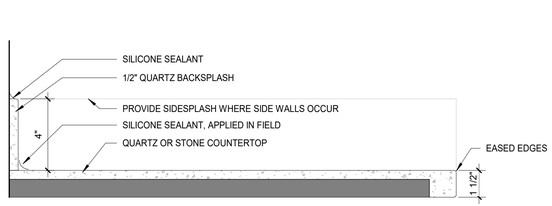
PERMIT DRAWINGS
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SHEET TITLE
TYPICAL DETAILS

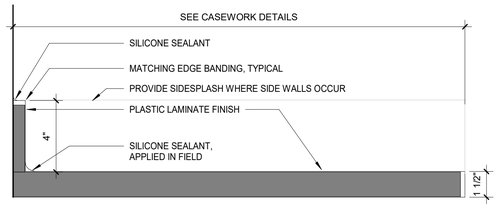
A500



D1 SECTION DETAIL - TALL CABINET, SHELVING
1 1/2" = 1'-0"

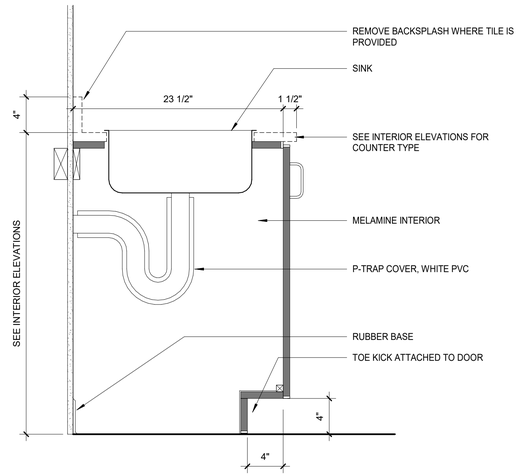


QUARTZ OR STONE COUNTERTOP & BACKSPLASH

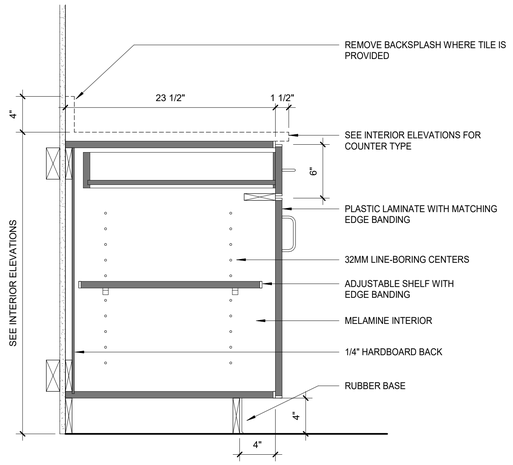


PLASTIC LAMINATE COUNTERTOP & BACKSPLASH

G3 SECTION DETAIL - COUNTERTOP STYLES
3" = 1'-0"



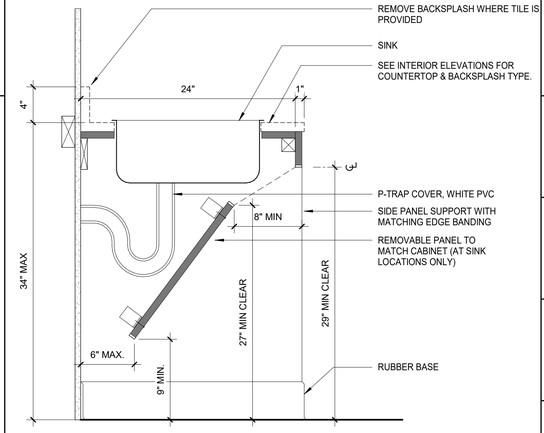
D3 SECTION DETAIL - BASE CABINET, SINK, DOORS
1 1/2" = 1'-0"



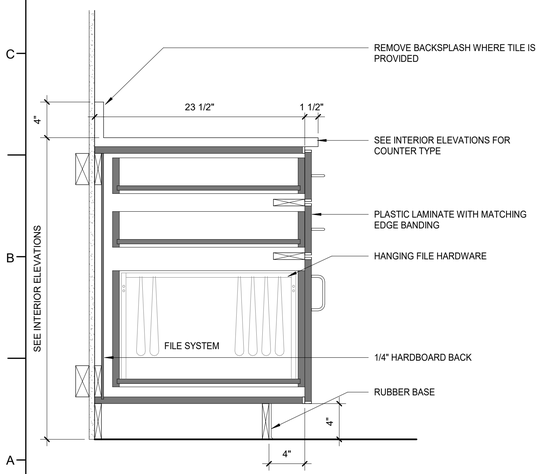
D5 SECTION DETAIL - BASE CABINET, DRAWER & SHELF
1 1/2" = 1'-0"

CABINETRY GENERAL NOTES

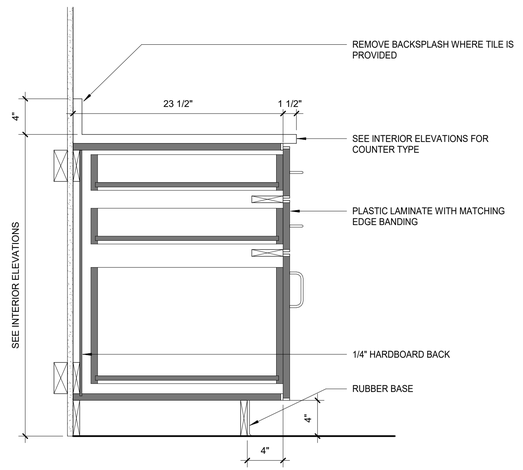
1. SHELVES WIDER THAN 30" SHALL BE 1" THICK. NARROWER SHELVES SHALL BE 3/4" THICK, UON.
2. NUMBER OF SHELVES, DOORS, AND DRAWERS SHALL BE AS INDICATED ON INTERIOR ELEVATIONS.
3. LOCKABLE CABINETS ARE INDICATED WITH "L" ON INTERIOR ELEVATIONS.
4. OPEN CABINETS SHALL HAVE THE SAME FINISH ON THE INTERIOR OF THE CABINET AS THE EXTERIOR, UON.
5. ALL VOIDS CREATED BY VERTICAL FILLER PANELS AT TOP OF TALL CABINETS AND BOTTOM OF WALL CABINETS ARE TO BE INFILLED WITH FILLER PANELS FINISHED TO MATCH ADJACENT SURFACES.
6. REFER TO FINISH LEGEND FOR FINISHES AND MATERIALS.
7. TYPICAL BASE AND WALL CABINETS DESIGNED IN 3" INCREMENTS ARE INTENDED TO BE PREFABRICATED MODULAR CABINETS, UNLESS NOTED OTHERWISE. ATYPICAL CABINET SIZES OR DESIGNS ARE INTENDED TO BE CUSTOM CABINETRY, UNLESS NOTED OTHERWISE.



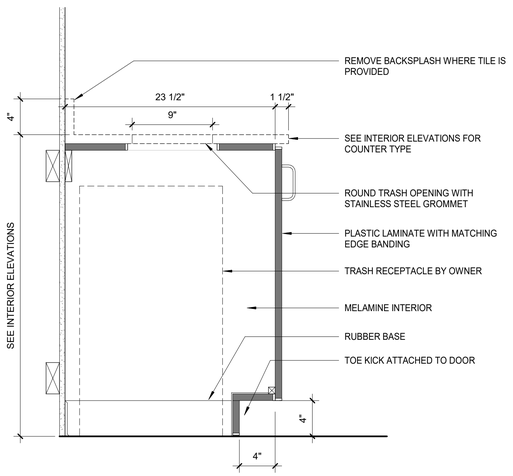
E7 SECTION DETAIL - ADA SINK SKIRT
1 1/2" = 1'-0"



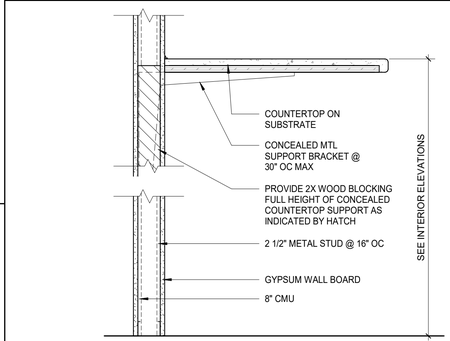
A1 SECTION DETAIL - BASE CABINET, 3 DRAWER & FOLDER FILE
1 1/2" = 1'-0"



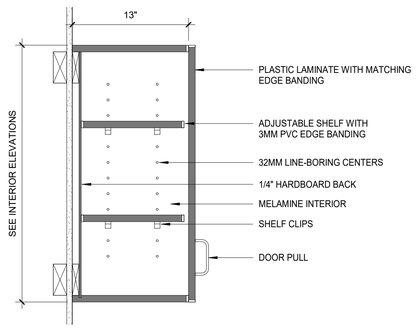
A3 SECTION DETAIL - BASE CABINET, 3 DRAWERS
1 1/2" = 1'-0"



A5 SECTION DETAIL - BASE CABINET, TRASH BIN
1 1/2" = 1'-0"



C7 SECTION DETAIL - WALL MOUNTED COUNTERTOP
1 1/2" = 1'-0"



A7 SECTION DETAIL - WALL CABINET, TYPICAL
1 1/2" = 1'-0"

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JIMMY ARDEL EDWARDS REGISTERED ARCHITECT 13823 05.02.25 NORTH CAROLINA RALEIGH, N.C.

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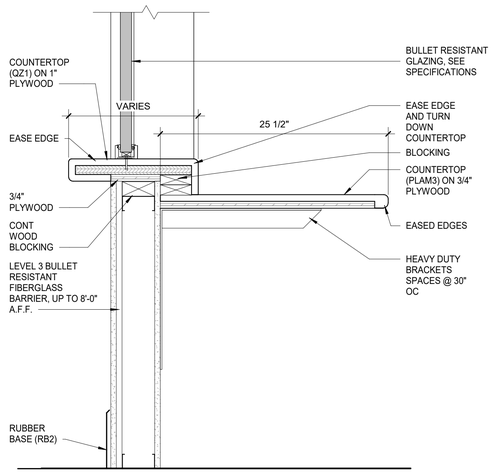
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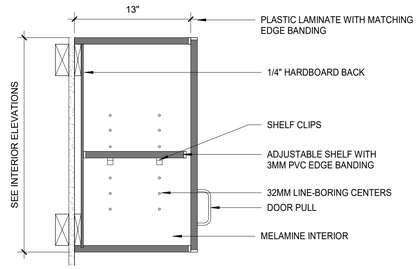
PERMIT DRAWINGS
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SHEET TITLE
CASEWORK & MILLWORK DETAILS

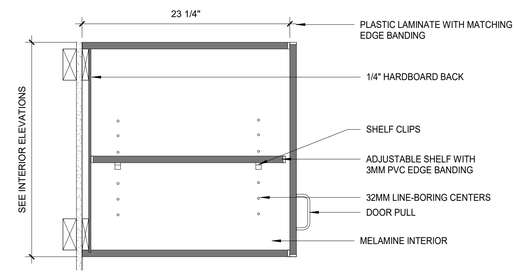
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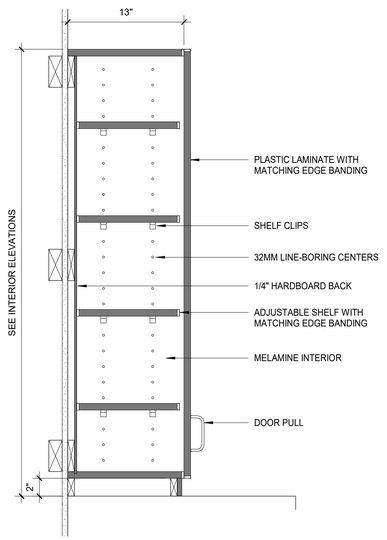
D5 SECTION DETAIL - ADMIN DESK
1 1/2" = 1'-0"



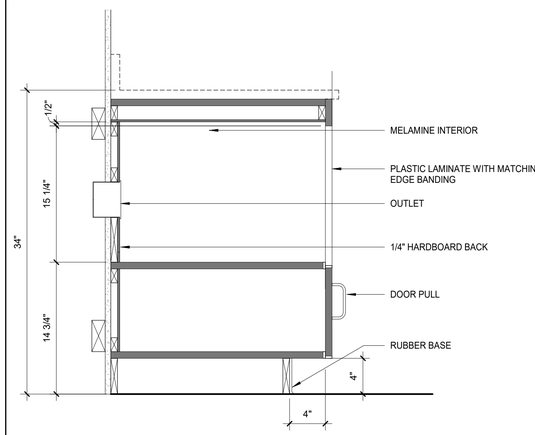
E7 SECTION DETAIL - WALL CABINET - DOORS & SHELF
1 1/2" = 1'-0"



C7 SECTION DETAIL - WALL CABINET - DOORS & SHELF (REF)
1 1/2" = 1'-0"



A5 SECTION DETAIL - CASEWORK WITH ADA REACH
1 1/2" = 1'-0"



A7 BASE CABINET - BUILT IN MICROWAVE
1 1/2" = 1'-0"

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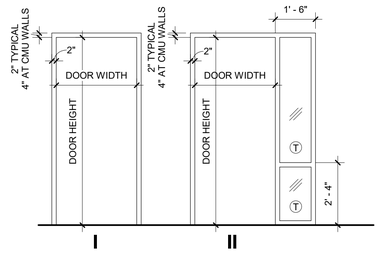
SHEET TITLE
CASEWORK & MILLWORK DETAILS

A601

DOOR SCHEDULE

	DOOR						FRAME					
NUMBER	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	FIRE RATING	HARDWARE	COMMENTS
100.1	B	3' - 6"	8' - 0"	0' - 1 3/4"	ALUM/GLASS	DARK BRONZE ANOD.	SF1	ALUM.	FACT.			*SEE STOREFRONT ELEVATIONS; CARD READER
100.2	B	3' - 6"	7' - 0"	0' - 1 3/4"	WOOD/GLASS	STAIN	I	HM	PAINT			UL LEVEL 3 BALLISTIC RATING
101	C	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD/GLASS	STAIN	I	HM	PAINT			UL LEVEL 3 BALLISTIC RATING; CARD READER
102	-	4' - 6"	7' - 0"	-	-	-	I	HM	PAINT			CASED OPENING
103	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			UL LEVEL 3 BALLISTIC RATING
104	-	3' - 0"	7' - 0"	-	-	-	I	HM	PAINT			
106	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			
108.1	C	3' - 0"	7' - 0"	0' - 1 3/4"	HM/GLASS	PAINT	I	HM	PAINT			CARD READER
108.2	C	3' - 0"	7' - 0"	0' - 1 3/4"	HM/GLASS	PAINT	I	HM	PAINT			CARD READER
109	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			
110	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	I	HM	PAINT			
111.1	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			
111.2	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			
111.3	-	3' - 0"	7' - 0"	-	-	-	I	HM	PAINT			CASED OPENING
112.1	D	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			
112.2	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			
112.3	-	3' - 0"	7' - 0"	-	-	-	I	HM	PAINT			CASED OPENING
113	D	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	I	HM	PAINT			
114.1	D	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD/GLASS	STAIN	I	HM	PAINT			
114.2	C	3' - 0"	7' - 0"	0' - 1 3/4"	HM/GLASS	PAINT	I	HM	PAINT			CARD READER, PANIC HARDWARE
115	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	I	HM	PAINT			CARD READER
116	D	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD/GLASS	STAIN	I	HM	PAINT			CARD READER
117.1	-	4' - 0"	7' - 0"	-	-	-	I	HM	PAINT			CASED OPENING
117.2	C	3' - 0"	7' - 0"	0' - 1 3/4"	HM/GLASS	PAINT	I	HM	PAINT			CARD READER
118	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			UL LEVEL 3 BALLISTIC RATING; CARD READER
200	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			
201	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			
203	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			
204	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			
205	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			
206	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			
207	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			CARD READER
208	C	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD/GLASS	STAIN	I	HM	PAINT			CARD READER
209	D	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			
210	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			CARD READER
211	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			
212	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	II	HM	PAINT			
213	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			
214	E	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			CARD READER
215	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			
216	A	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	STAIN	I	HM	PAINT			
S-116.1	D	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD/GLASS	STAIN	I	HM	PAINT			UL LEVEL 3 BALLISTIC RATING; CARD READER
S-116.2	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	I	HM	PAINT			
S-116.3	D	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD/GLASS	STAIN	I	HM	PAINT			

FRAME TYPE ELEVATIONS



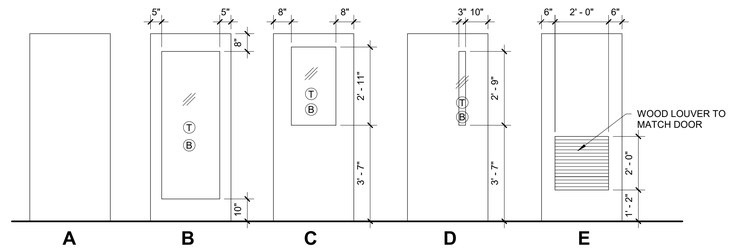
DOOR & FRAME GENERAL NOTES

1. ALL FACE FRAME WIDTHS SHALL BE 2" UNLESS NOTED OTHERWISE.
2. PAINT ALL HM FRAMES. PAINT ALL HM DOORS.
3. ADJUST MASONRY TO PROVIDE A 3/8" JOINT AT EACH JAMB OF A DOOR FRAME OPENING.
4. SEE DOOR FRAME DETAILS ON THIS SHEET FOR FRAME DEPTHS.
5. SEE ENLARGED STOREFRONT ELEVATIONS ON SHEET A702.
6. ALL GLAZING IN FIRE-RATED OPENINGS SHALL BE FIRE-RATED SAFETY GLAZING.
7. DOORS AND FRAMES SCHEDULED AS UL LEVEL 3 BALLISTIC SHALL HAVE BALLISTIC RATED GLAZING TO MATCH ASSEMBLY.

DOOR & FRAME SYMBOL LEGEND

- INDICATES GLAZING
- (T) INDICATES TEMPERED GLAZING
- (S) INDICATES SPANDREL GLAZING
- (B) INDICATES BALLISTIC GLAZING

DOOR TYPE ELEVATIONS



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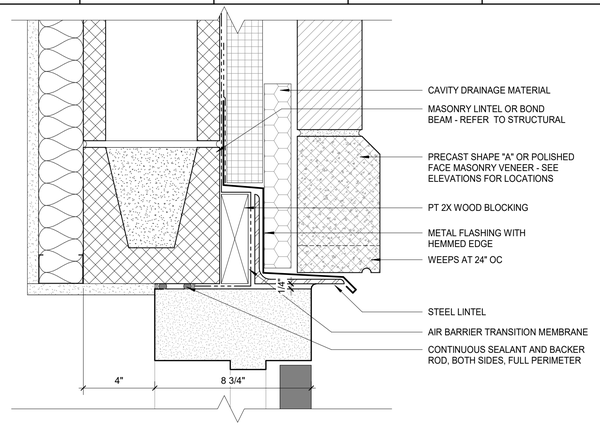
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PM: BJM
Drawn By: BJM
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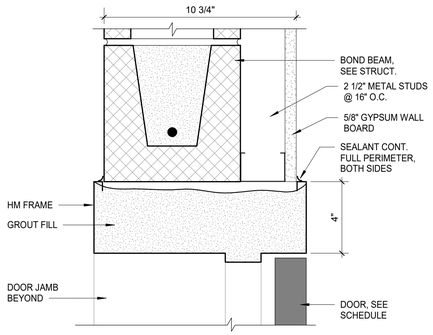
PERMIT DRAWINGS
05/02/25

SHEET TITLE
DOOR SCHEDULE AND NOTES

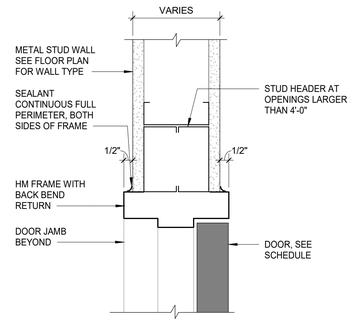
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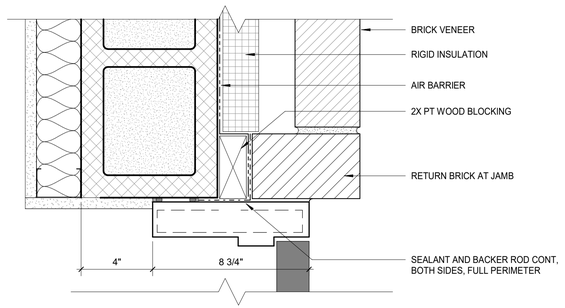
F1 SECTION DETAIL - EXTERIOR HM HEAD IN MASONRY
3" = 1'-0"



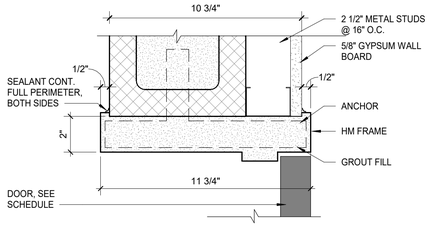
F3 TYP HM DOOR HEAD AT CMU/GWB
3" = 1'-0"



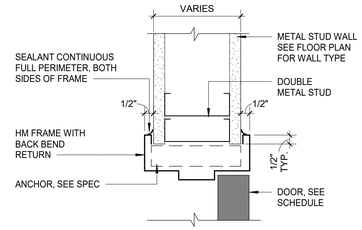
F5 TYP HM DOOR HEAD AT GWB
3" = 1'-0"



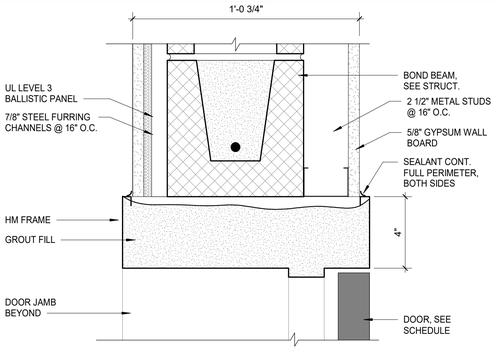
D1 PLAN DETAIL - EXTERIOR HM JAMB IN MASONRY WALL
3" = 1'-0"



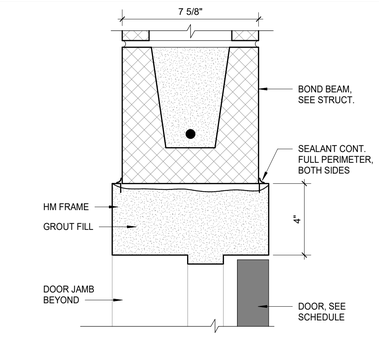
D3 TYP HM DOOR JAMB AT CMU/GWB
3" = 1'-0"



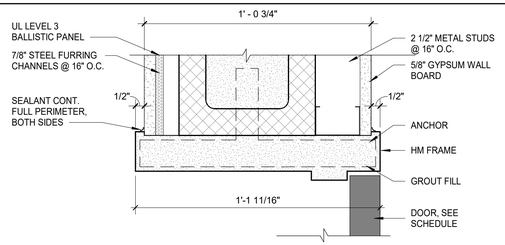
D5 TYP HM DOOR JAMB AT GWB
3" = 1'-0"



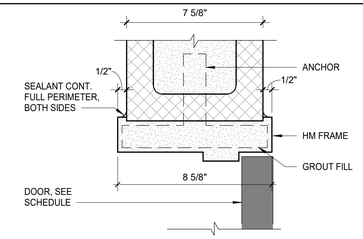
B1 TYP HM DOOR HEAD AT CMU/GWB/BALLISTIC PANEL
3" = 1'-0"



B3 TYP HM DOOR HEAD AT CMU
3" = 1'-0"



A1 TYP HM DOOR JAMB AT CMU/GWB/BALLISTIC PANEL
3" = 1'-0"



A3 TYP HM DOOR JAMB AT CMU
3" = 1'-0"

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POLICE HEADQUARTERS BUILDING
Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

DAVIS KANE ARCHITECTS P.A. REGISTERED ARCHITECTURAL CORPORATION 50304 NORTH CAROLINA RALEIGH, N.C.

JIMMY ARDEL EDWARDS REGISTERED ARCHITECT 13823 05.02.25 NORTH CAROLINA RALEIGH, N.C.

DKA JOB NUMBER
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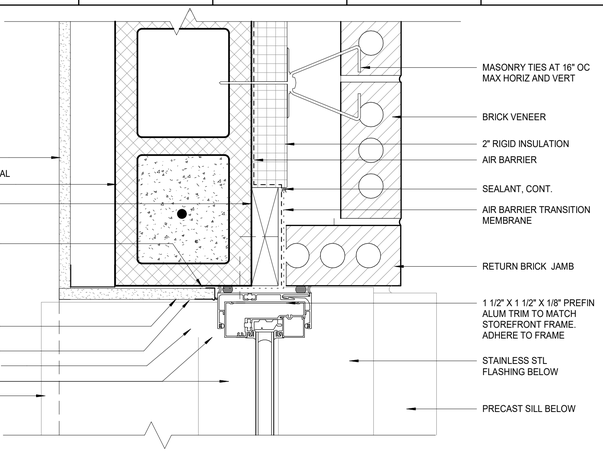
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Drawn By: VK
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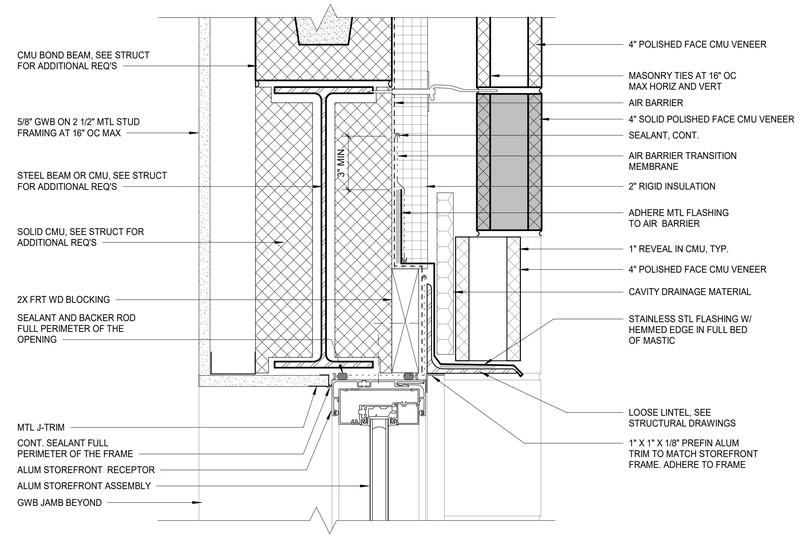
PERMIT DRAWINGS
05/02/25

SHEET TITLE
DOOR DETAILS

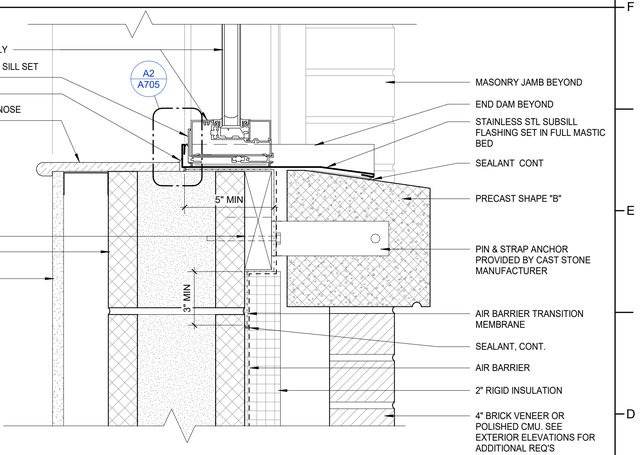
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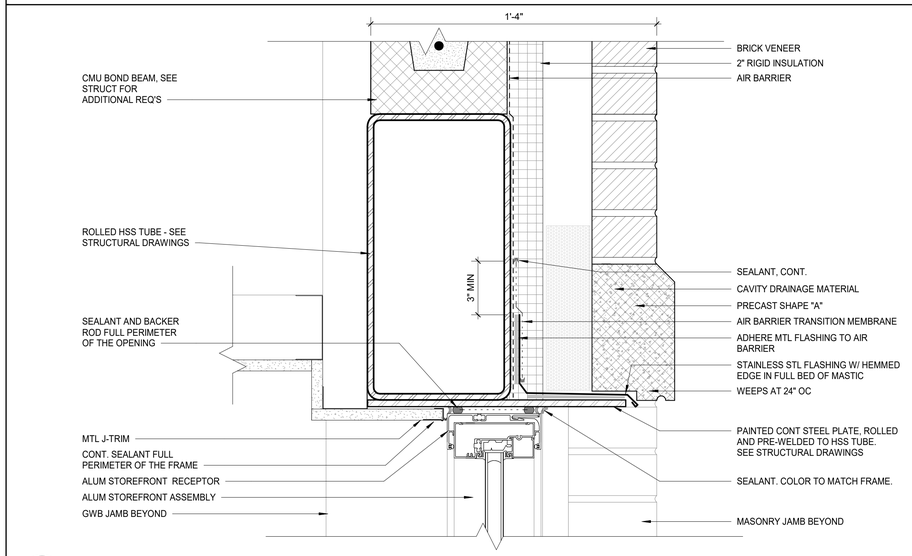
G6 STOREFRONT JAMB DETAIL
3" = 1'-0"



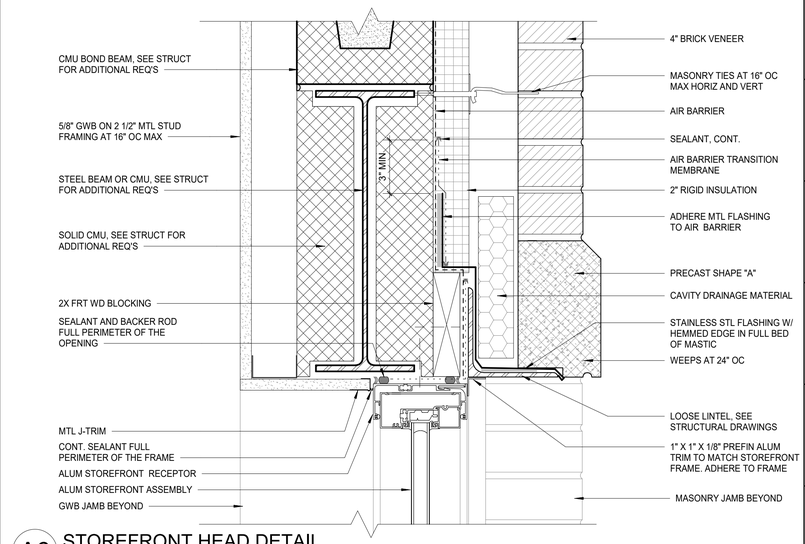
D2 STOREFRONT HEAD DETAIL
3" = 1'-0"



D6 STOREFRONT SILL DETAIL
3" = 1'-0"



A2 STOREFRONT HEAD DETAIL AT ARCHED STOREFRONT
3" = 1'-0"



A6 STOREFRONT HEAD DETAIL
3" = 1'-0"

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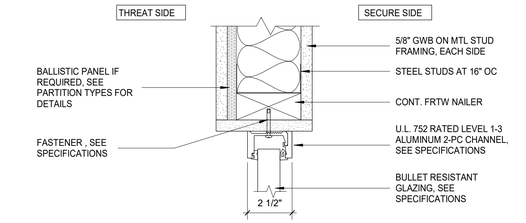
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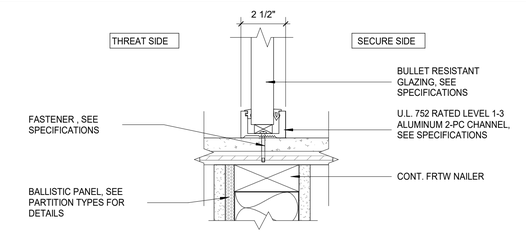
PERMIT DRAWINGS
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SHEET TITLE
STOREFRONT DETAILS

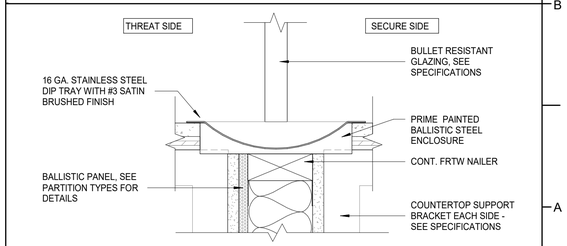
A703



D7 BALLISTIC WINDOW HEAD/JAMB
3" = 1'-0"



B7 BALLISTIC WINDOW SILL
3" = 1'-0"



A7 BALLISTIC WINDOW SILL @ BULLET TRAY
3" = 1'-0"

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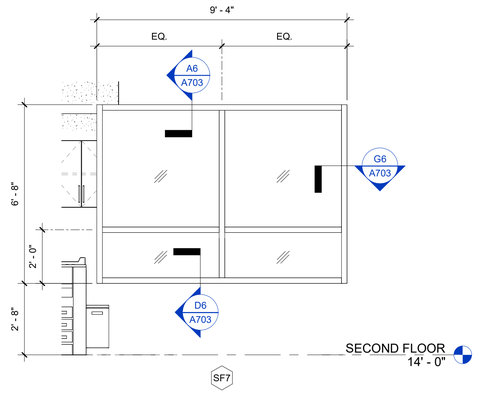
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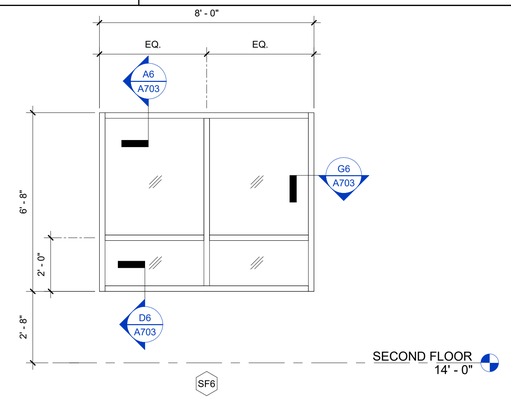
STOREFRONT DETAILS

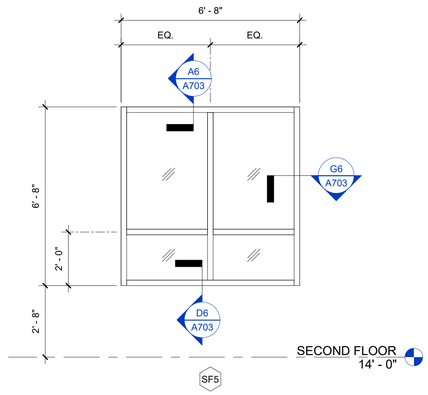
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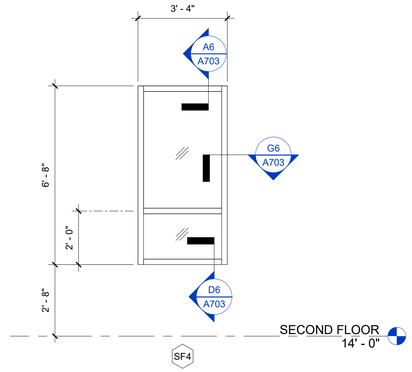
STOREFRONT SYMBOL LEGEND

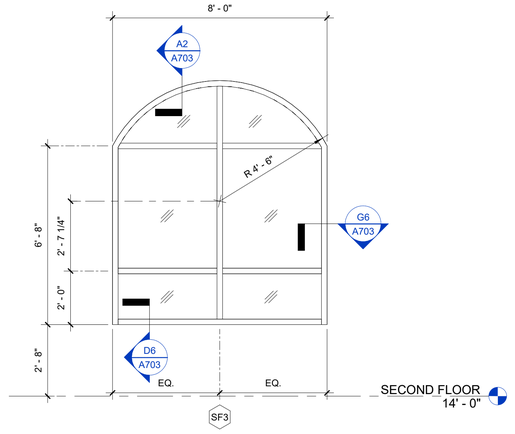
- INDICATES GLAZING
- (T) INDICATES TEMPERED GLAZING
- (S) INDICATES SPANDREL GLAZING
- (B) INDICATES BALLISTIC GLAZING

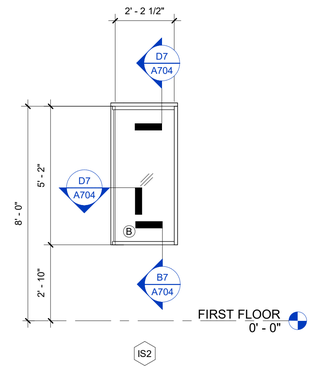


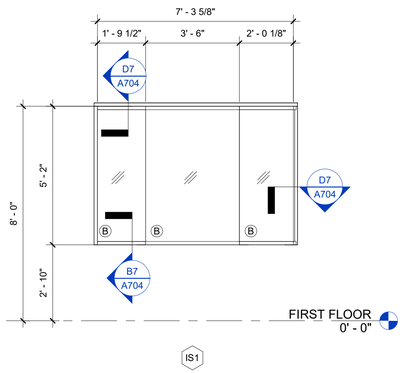


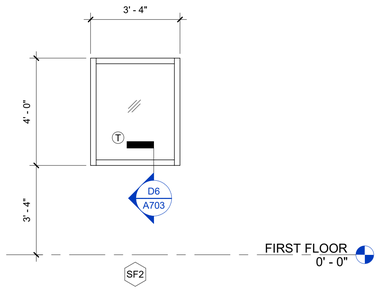


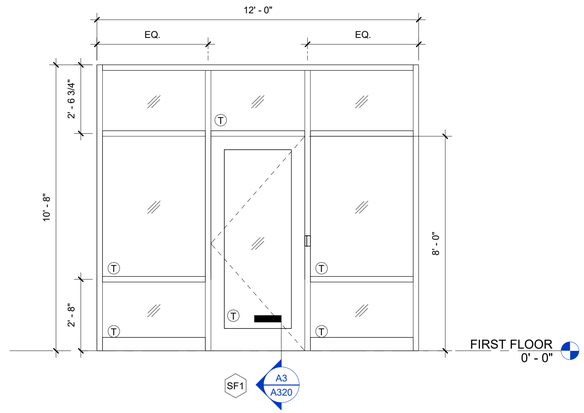












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PA: JIMMY ARDEL EDWARDS
PM: BJM
Drawn By: Author
Plot Date: 5/2/2025 4:10:03 PM

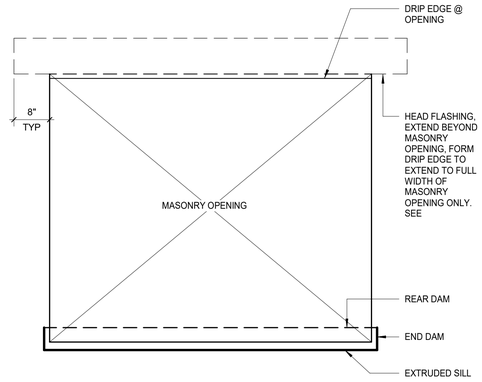
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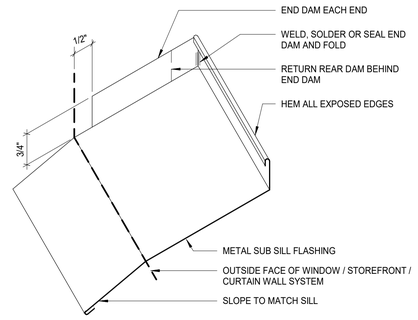
SHEET TITLE

STOREFRONT SCHEDULE AND NOTES

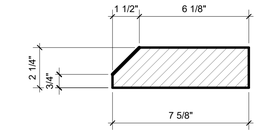
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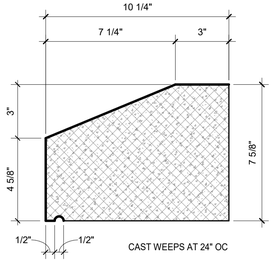
F4 FLASHING AT WALL OPENING
3/4" = 1'-0"



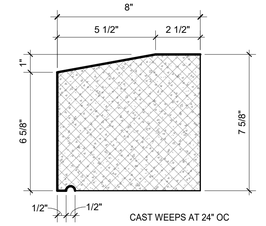
F5 TYP SUBSILL FLASHING AXON
6" = 1'-0"



H7 WATER TABLE BRICK
3" = 1'-0"

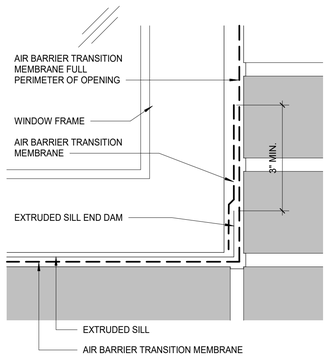


F7 PRECAST SHAPE "C"
3" = 1'-0"

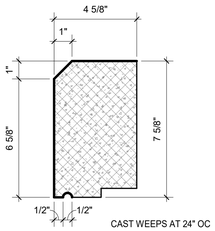


D7 PRECAST SHAPE "B"
3" = 1'-0"

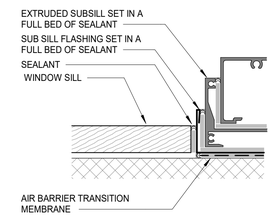
B4 HEAD FLASHING AXON
6" = 1'-0"



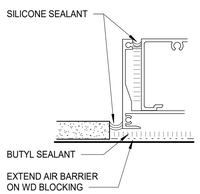
B6 AIR BARRIER AT OPENING ELEVATION
6" = 1'-0"



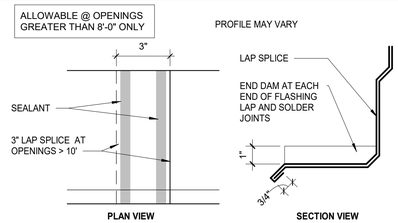
B7 PRECAST "A"
3" = 1'-0"



A2 WINDOW SUB SILL DETAIL
6" = 1'-0"



F6 SEALANT DETAIL
6" = 1'-0"



A6 LAP JOINT AT HEAD FLASHING TYP
3" = 1'-0"

PRECAST GENERAL NOTES:

1. ALL ITEMS SHALL BE FINISHED ON ALL EXPOSED SURFACES
2. PROVIDE CUSTOM SHAPES AS SHOWN IN LONGEST LENGTH POSSIBLE. MANUFACTURE SIZES TO MINIMIZE THE NUMBER OF JOINTS. PROVIDE SHOP DRAWINGS INDICATING JOINT LOCATIONS AND ANCHOR DETAILS AS RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN THOSE INDICATED OR SPECIFIED.
3. ADDITIONAL SUPPORT BLOCKING SHALL BE PROVIDED IF REQUIRED, WHETHER SHOWN OR NOT AT NO ADDITIONAL COST TO THE PROJECT.
4. PROVIDE SPECIAL CORNER UNITS WHERE MANSONRY RETURNS.
5. COORDINATE ANCHORING REQUIREMENTS WITH REQUIREMENTS FOR WALLS AND OTHER SUBSTRATES. PROVIDE ALL CONNECTORS FOR ATTACHMENT TO SCHEDULED SUBSTRATES. ALL CONNECTORS SHALL BE FULLY CONCEALED AFTER INSTALLATION IS COMPLETE.
6. ALL CORNERS TO BE RADIUSED 3/16" TYP.

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SHEET TITLE
SF DETAILS & PRECAST/BRICK DETAILS

A705

A1 FIRST FLOOR SIGNAGE PLAN

1/8" = 1'-0"

0' 4' 8' 16'

A5 SECOND FLOOR SIGNAGE PLAN

1/8" = 1'-0"

0' 4' 8' 16'

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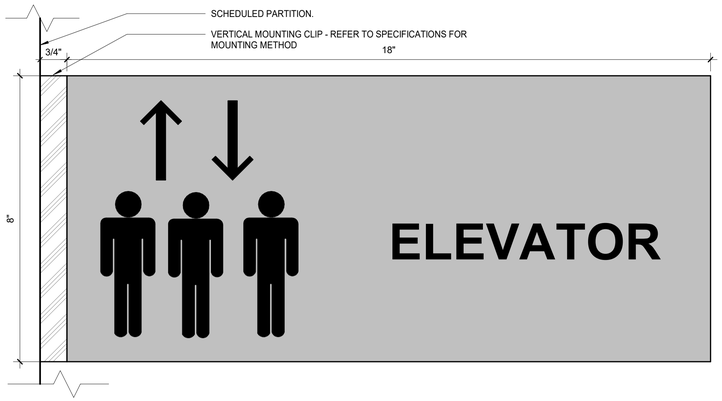
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SHEET TITLE

SIGNAGE PLANS

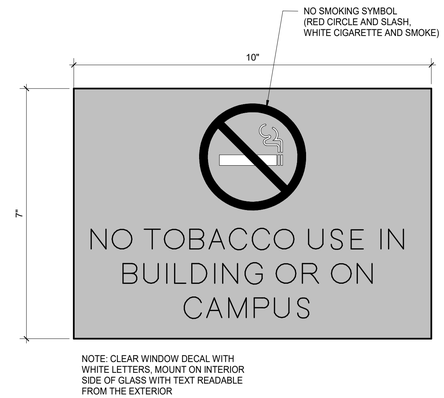
A800



F1 SIGN TYPE A - DOUBLE SIDED
6" = 1'-0"



F4 SIGN TYPE B - DOUBLE SIDED
6" = 1'-0"



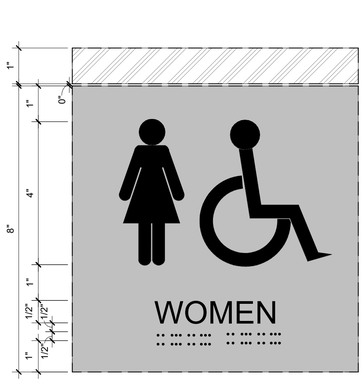
NOTE: CLEAR WINDOW DECAL WITH WHITE LETTERS, MOUNT ON INTERIOR SIDE OF GLASS WITH TEXT READABLE FROM THE EXTERIOR

F7 SIGN TYPE C
6" = 1'-0"

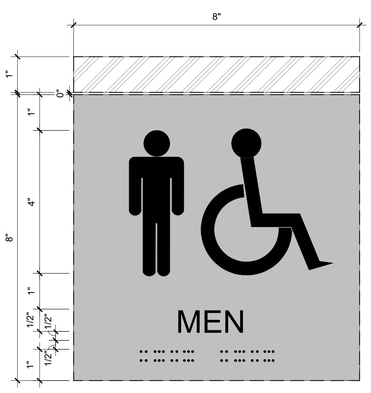


NOTE: SIGN TYPE D.1 SHALL BE FOR UNISEX RESTROOM AND NOT INCLUDE HANDICAP LOGO OR BRAILLE

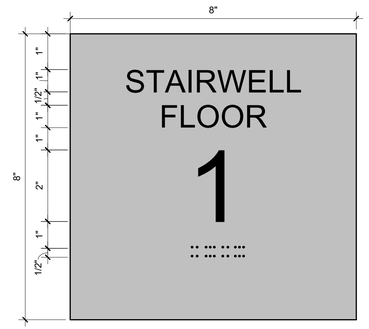
D1 SIGN TYPE D
6" = 1'-0"



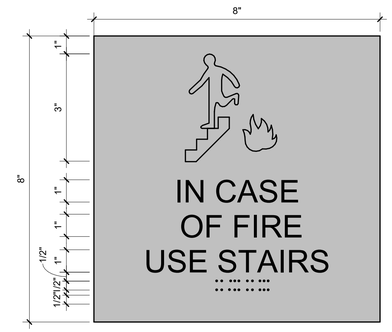
D2 SIGN TYPE E
6" = 1'-0"



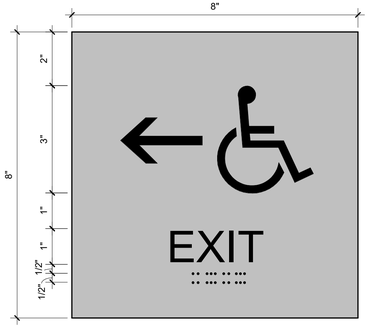
D4 SIGN TYPE F
6" = 1'-0"



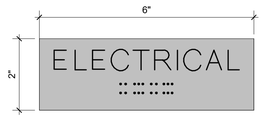
D5 SIGN TYPE G
6" = 1'-0"



D7 SIGN TYPE H
6" = 1'-0"



B1 SIGN TYPE I
6" = 1'-0"



B2 SIGN TYPE J
6" = 1'-0"

EMERGENCY EXIT ONLY

*NOTE: VINYL LETTERING PLACED ON DOOR. REFER TO SPECIFICATIONS

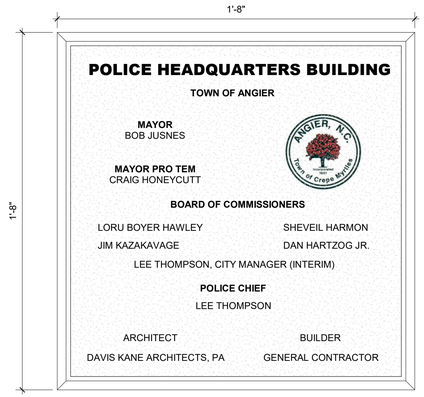
B4 SIGN TYPE L
6" = 1'-0"

SIGNAGE FINISHES KEY

- BLACK (TO BE SELECTED FROM MANUFACTURER'S FULL RANGE)
- SATIN CLEAR ANODIZED ALUMINUM
- LIGHT GRAY (TO BE SELECTED FROM MANUFACTURER'S FULL RANGE)

INTERIOR SIGNAGE NOTES:

1. REFER TO SHEET A001 FOR MOUNTING HEIGHTS
2. TEXT SHOWN ON SIGNS IS SAMPLE TEXT ONLY



RAISED BORDER / LETTERS RECESSED BACKGROUND

NOTE:
ALL COPY SUBJECT TO CHANGE BASED ON TOWN OF ANGIER APPROVAL.

A7 DEDICATION PLAQUE ELEVATION
3" = 1'-0"

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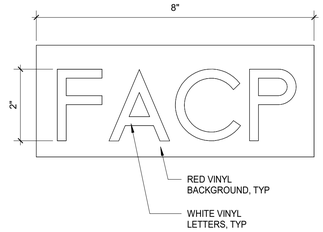
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SHEET TITLE
INTERIOR SIGNAGE ELEVATIONS

A801

EXTERIOR SIGNAGE NOTES:

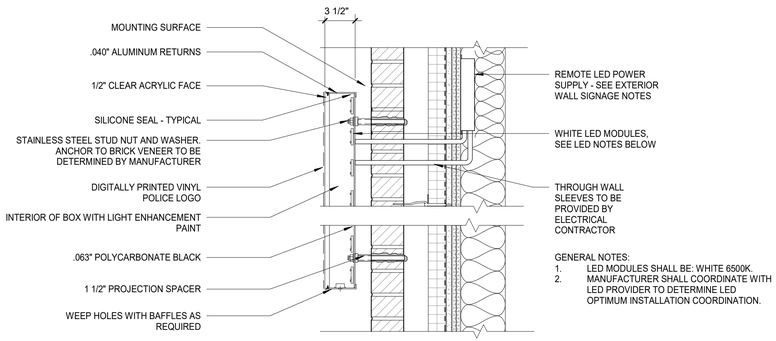
1. BACKLIT ANODIZED LETTERS SHALL BE 12" HIGH.
2. BACKLIT ANODIZED LETTER FONT SHALL BE CENTURY GOTHIC
3. ARCHITECT TO FURNISH HIGH RESOLUTION ANGIER POLICE DEPARTMENT LOGO FOR FACE AND HALO LIT SIGN.



E7 SIGN TYPE K
6" = 1'-0"

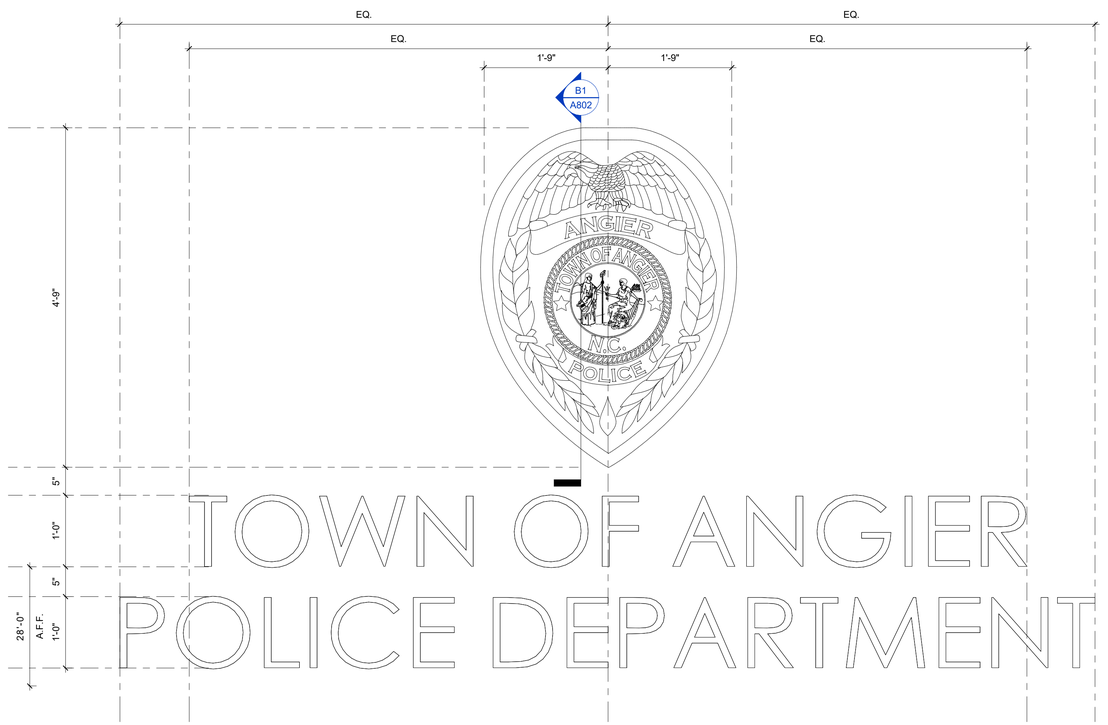


E4 SIGN TYPE M
6" = 1'-0"



GENERAL NOTES:
1. LED MODULES SHALL BE: WHITE 6500K.
2. MANUFACTURER SHALL COORDINATE WITH LED PROVIDER TO DETERMINE LED OPTIMUM INSTALLATION COORDINATION.

B1 EXTERIOR SIGN DETAIL
1 1/2" = 1'-0"



A4 EXTERIOR SIGNAGE ELEVATIONS
1" = 1'-0"

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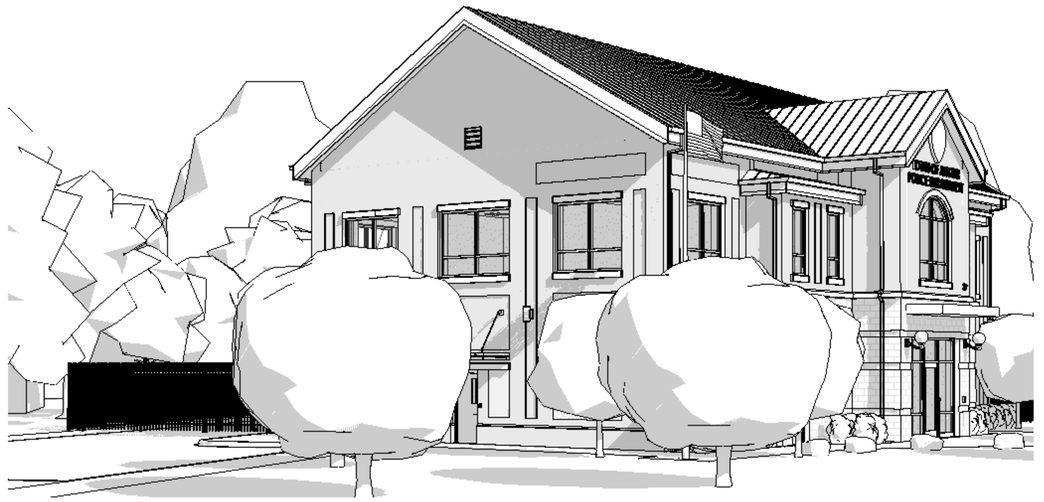
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SHEET TITLE
EXTERIOR SIGNAGE DETAILS

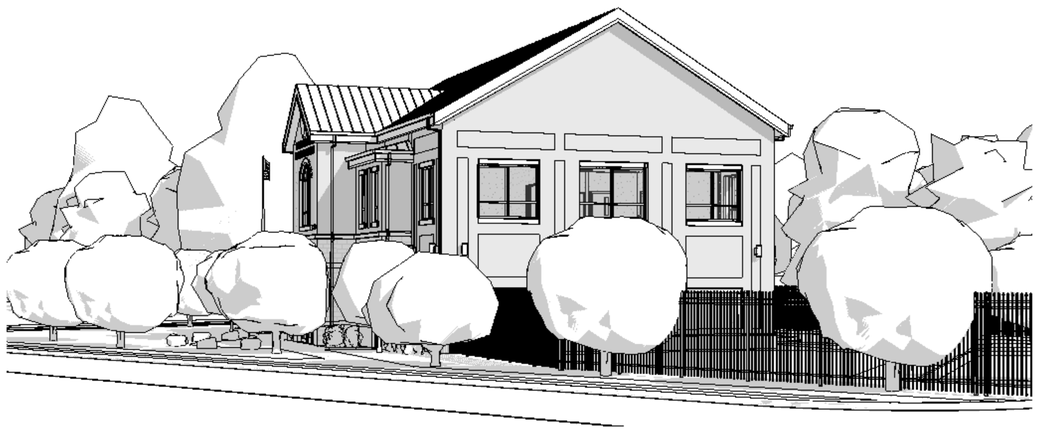
A802



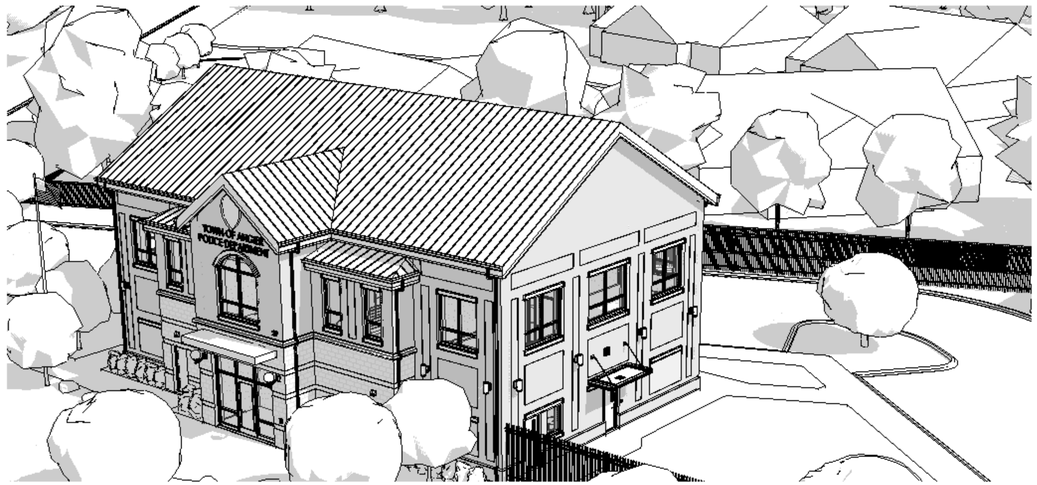
F1 FRONT ENTRY PERSPECTIVE



F5 WEST PERSPECTIVE



C1 EAST PERSPECTIVE



C5 NORTHEAST AERIAL PERSPECTIVE

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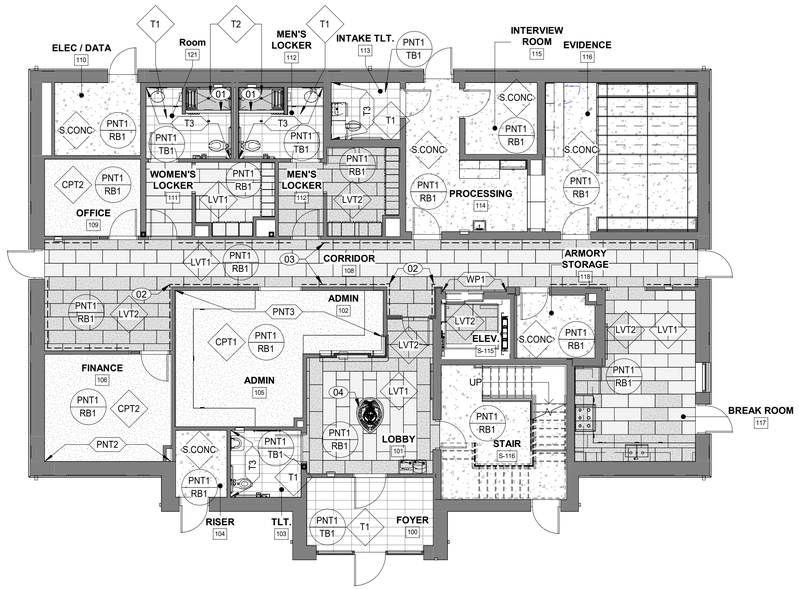
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SHEET TITLE

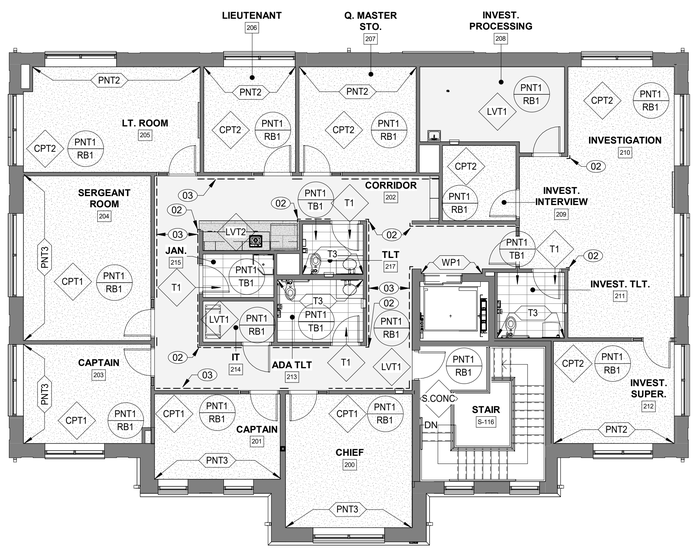
PERSPECTIVES

A900



D1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

0' 4' 8' 16'



D5 SECOND FLOOR FINISH PLAN
1/8" = 1'-0"

0' 4' 8' 16'

FINISH GENERAL NOTES

1. SEE FLOOR PLANS FOR WALL TYPES.
2. SEE INTERIOR ELEVATIONS AND DETAILS FOR LOCATION OF CASEWORK AND WALL FINISH SELECTIONS NOT SHOWN ON PLAN.
3. WHERE PAINT IS INDICATED ON LEGEND, PROVIDE THE FOLLOWING:

FINISH	LOCATION
EGGSHELL	GYPSUM BOARD WALLS, UON
SEMI-GLOSS	MASONRY WALLS, UON
SEMI-GLOSS	INTERIOR FRAMES
SATIN	RAILINGS

4. PAINT COLORS PROVIDED IN FINISH LEGEND ARE FOR COLOR MATCH ONLY.
5. UNLESS NOTED OTHERWISE, FLOORING HATCH PATTERNS DENOTE GENERAL MATERIAL (PER LEGEND) ONLY, NOT INTENDED TO REPRESENT FLOORING INSTALLATION PATTERNS. REFER TO FINISH LEGEND FOR FLOORING INSTALLATION PATTERN AND CONFIRM WITH ARCHITECT.
6. INTERIOR FINISH ACCENTS INDICATED AT LOCATION BY SYMBOL, WITH LEADER DESIGNATION.
7. FOR CEILING FINISHES AND COLORS, REFER TO REFELCTED CEILING PLANS.
8. FOR INFORMATION ABOUT DOOR THRESHOLDS, SEE DOOR SCHEDULE.
9. PAINT ALL EXPOSED STAIR STEEL, GUARDRAILS, HANDRAILS, AND HANDRAIL BRACKETS THROUGHOUT ALL STAIRS.

FINISH PLAN KEY NOTES

NOT ALL KEY NOTES BELOW ARE APPLICABLE TO THIS SHEET. KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. REFER TO OTHER SHEETS FOR GENERAL PROJECT NOTES, PARTITION NOTES, LEGENDS, AND ADDITIONAL REQUIREMENTS.

01	MARBLE THRESHOLD
02	CORNER GUARD
03	CRASH RAIL
04	+/- 4'-0" H x 3'-0" W TOWN OF ANGIER POLICE EMBLEM WATER JET CUT INTO VINYL PLANK FLOORING - CENTERED IN SPACE

FINISH PLAN SYMBOL LEGEND

- LUXURY VINYL TILE
- CARPET
- TILE
- SEALED CONCRETE
- RB1 — FLOORING
- PNT1 / RB1 — WALL / BASE
- BRK1 — OTHER FINISH
- FLOORING INSTALL DIRECTION

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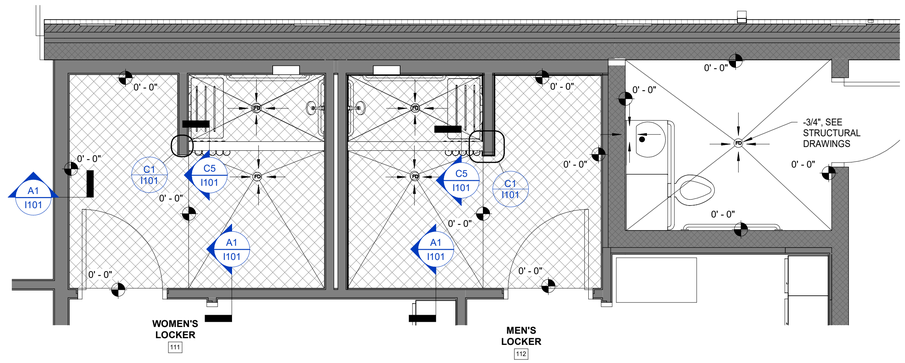
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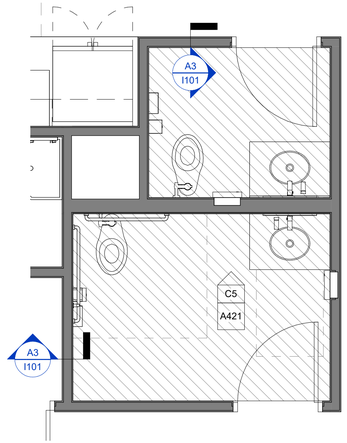
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SHEET TITLE
FINISH PLANS & DETAILS

I100



F1 TILE SYSTEM PLAN - LOCKER ROOM SHOWERS
3/8" = 1'-0"



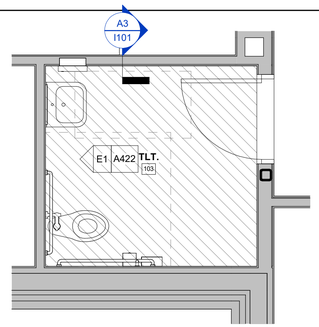
F4 TILE SYSTEM PLAN - 2ND FLOOR BATHROOMS
3/8" = 1'-0"

FINISH SYSTEMS LEGEND

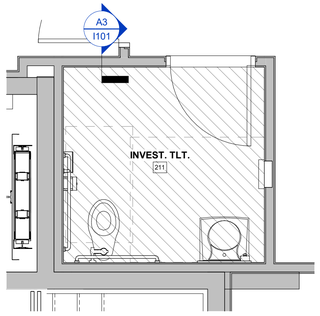
- XZXCVV — FLOORING
- PNT1 / RB1 — WALL / BASE

FLOORING, WALL, & BASE FINISHES APPLY TO ENTIRETY OF ROOM UNLESS LEADERS INDICATE SPECIFIC LOCATION(S).

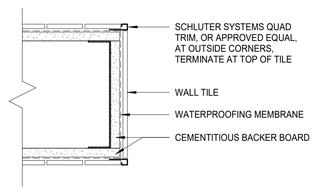
- BRK1 — OTHER FINISH
- FLOORING INSTALL DIRECTION
- THINSET TILE SYSTEM
- DEPRESSED SLAB, SLOPE TILE MUDBED TO FLOOR DRAIN
- FINISH ELEVATION, ALL ELEVATIONS RELATIVE TO FINISHED FLOOR
- SLOPE



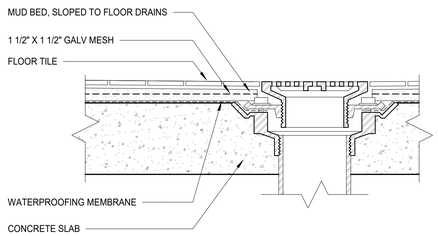
D1 TILE SYSTEM PLAN - TLT. 103
3/8" = 1'-0"



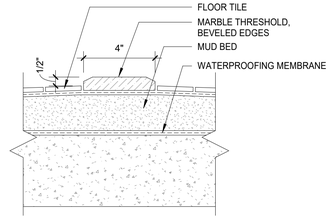
F6 TILE SYSTEM PLAN - INVEST. TLT. 212
3/8" = 1'-0"



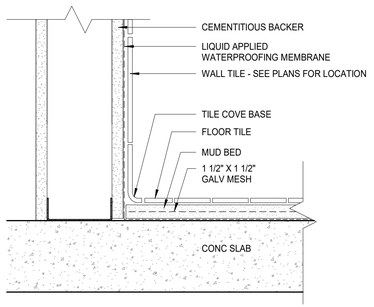
C1 PLAN DETAIL - TILE END CAP
3" = 1'-0"



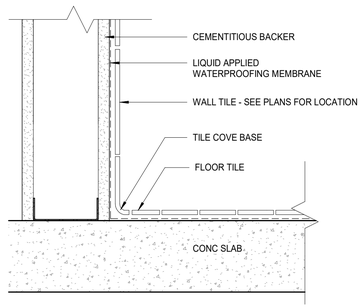
C3 SECTION DETAIL - FLOOR DRAIN, MUD BED
3" = 1'-0"



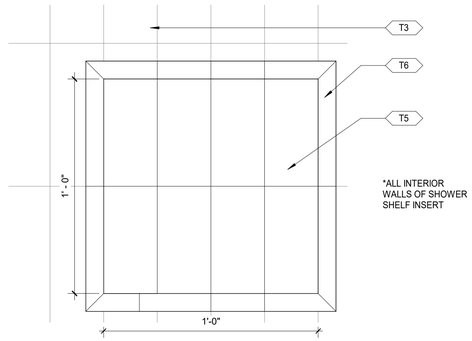
C5 SECTION DETAIL - SHOWER THRESHOLD
3" = 1'-0"



A1 SECTION DETAIL - TILE BASE, MUD BED
3" = 1'-0"



A3 SECTION DETAIL - TILE BASE, THIN SET
3" = 1'-0"



A5 ELEVATION - SHOWER SHELF, TYP
3" = 1'-0"

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REVISIONS

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PM: BJM
Drawn By: BJM
Plot Date: 5/2/2025 4:07:13 PM

DATE ISSUED
PERMIT DRAWINGS
05/02/25

SHEET TITLE
TILE SYSTEMS AND DETAILS

I101

GENERAL NOTES:

1. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.

3. THE WORK OUTLINED IN THE SCHEDULE OF SPECIAL INSPECTIONS IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN THE BUILDING CODE.

4. THE CONTRACTOR MUST PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

5. DISCREPANCIES WITHIN DRAWINGS, BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, OR WITHIN THE SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER DURING THE BIDDING PROCESS IN TIME TO PERMIT CLARIFICATION BY ADDENDUM. IF INCONSISTENCIES, DISCREPANCIES OR CONTRADICTIONS IN THE CONTRACT DOCUMENTS ARE DISCOVERED AFTER THE CLOSE OF BIDDING QUESTIONS, THE CONTRACTOR MUST BE DEEMED BY SUBMITTAL OF THEIR BID, TO HAVE BID THE MOST COSTLY AS TO LABOR, MATERIALS, DURATION, SEQUENCE AND METHOD OF CONSTRUCTION TO PROVIDE THE WORK.

6. THESE STRUCTURAL DRAWINGS ARE ISSUED ON THE DATE INDICATED FOR THE PURPOSE DESIGNATED. THESE DRAWINGS MUST NOT BE ISSUED OR RELEASED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AUTHORIZATION OF THE STRUCTURAL ENGINEER OF RECORD.

7. DETAILS LABELED "TYPICAL DETAIL" WITHIN THE DOCUMENTS APPLY TO SITUATIONS ON THE PROJECT THAT MAY OCCUR THROUGHOUT THE PROJECT. SUCH DETAILS APPLY WHETHER OR NOT THE DETAIL IS SPECIFICALLY REFERENCED AT EACH INSTANCE. NOTIFY ENGINEER IF CLARIFICATIONS ARE REQUIRED REGARDING THE APPLICABILITY OF THE "TYPICAL DETAIL".

8. DESIGN CRITERIA:

CLASSIFICATION OF BUILDING
- RISK CATEGORY: IV

SUPERIMPOSED ROOF DEAD LOADS - UNIFORM:
- 6" INSULATION AND ROOF MEMBRANE: 3 PSF
- CEILING: 2 PSF
- SPRINKLERS: 3 PSF
- DUCTS, LIGHTS, MISC. MECHANICAL: 3 PSF
- PARTITION LOADS (2ND FLOOR): 15 PSF

SUPERIMPOSED FLOOR DEAD LOADS - UNIFORM:
- FLOOR FINISH: 3 PSF
- CEILING: 2 PSF
- SPRINKLERS: 3 PSF
- DUCTS, LIGHTS, MISC. MECHANICAL: 3 PSF

LIVE LOADS - UNIFORM:
- SLAB ON GRADE: 100 PSF
- ROOF: 20 PSF
- RESTROOMS, OFFICES, CONFERENCE: 60 PSF
- ELEVATOR MACHINE ROOM: 150 PSF
- LOBBIES: 100 PSF
- CORRIDORS (FIRST FLOOR): 100 PSF
- CORRIDORS (SERVING PUBLIC SPACES): 100 PSF
- CORRIDORS (ABOVE FIRST FLOOR): 80 PSF
- STAIRWAYS: 100 PSF

LIVE LOAD REDUCTION OF THE UNIFORMLY DISTRIBUTED FLOOR LIVE LOADS HAS BEEN UTILIZED WHERE PERMITTED BY CODE.

LIVE LOADS - CONCENTRATED:
- FLOOR [OFFICES]: 2,000#
- ROOFS: 300#

UNLESS OTHERWISE NOTED, CONCENTRATED LOADS ARE APPLIED UNIFORMLY OVER 2'-6" x 2'-6" AREA.

SPECIAL LOADS:
- MAXIMUM CONSTRUCTION LOADS ON STEEL DECK: 20 PSF

RAIN LOADS:
- RAIN INTENSITY (15 MINUTE): 7.16 IN/HR

SNOW LOADS:
- GROUND SNOW LOAD (Pg): 15 PSF
- SLOPED ROOF LOAD (Pf): 18 PSF
- IMPORTANCE FACTOR (Is): 1.2
- THERMAL FACTOR (Ct): 1.0
- EXPOSURE FACTOR (Ce): 1.0

GENERAL NOTES CONT'D:

WIND LOADS:
- BASIC WIND SPEED (Vult): 123 MPH
- ALLOWABLE STRESS DESIGN WIND SPEED (Vasd): 95 MPH
- EXPOSURE CATEGORY: C
- INTERNAL PRESSURE COEFFICIENT: ±0.18

COMPONENT AND CLADDING PRESSURES:
- WALLS, ZONE 5 (10 SF): 52.8 PSF
- ROOF, ZONE 3 (10 SF): 46.1 PSF

ULTIMATE WIND BASE SHEARS (FOR MWFRS):
- VE-W: 72 KIPS
- VN-S: 103 KIPS

SEISMIC LOADS:
- SITE CLASSIFICATION: D
- SEISMIC DESIGN CATEGORY: C
- IMPORTANCE FACTOR (IE): 1.5

SPECTRAL RESPONSE ACCELERATIONS:
- S_S: 0.173 — S_1: 0.083
- S_{MS}: 0.276 — S_{M1}: 0.198
- S_{DS}: 0.184 — S_{D1}: 0.132

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

LATERAL FORCE RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS

- RESPONSE MODIFICATION COEFFICIENT (R): 3.5
- SEISMIC RESPONSE COEFFICIENT (Cs): 0.079
- ULTIMATE SEISMIC BASE SHEAR (V): 89 KIPS

LATERAL DESIGN CONTROL
- CONTROLLING LATERAL LOADS: WIND [N-S], SEISMIC [E-W]

SHOP DRAWINGS AND SUBMITTALS:

1. SHOP DRAWINGS AND SUBMITTALS MUST BEAR THE CONTRACTOR'S REVIEW STAMP WITH CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.

2. WHEN THE CONTRACTOR HAS BEEN AUTHORIZED TO USE THE ARCHITECT'S AND / OR ENGINEER'S DRAWINGS AS SHOP DRAWINGS, THE CONTRACTOR MUST REMOVE ALL TITLE BLOCKS, PROFESSIONAL SEALS, AND ANY OTHER REFERENCE TO THE ARCHITECT AND / OR ENGINEER FROM THAT SHOP DRAWING.

FOUNDATION NOTES:

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE REPORT OF SUBSURFACE INVESTIGATION AND GEOTECHNICAL ENGINEERING EVALUATION BY NV5 ENGINEERS AND CONSULTANTS, INC., DATED SEPTEMBER 18, 2024.

2. FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.

3. TOP OF FOOTING ELEVATIONS MUST BE A MINIMUM DEPTH OF 1'-0" BELOW LOWEST ADJACENT SOIL GRADE.

4. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY AND/OR SPECIAL INSPECTOR TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY AND/OR SPECIAL INSPECTOR WHERE UNSATISFACTORY SOILS ARE PRESENT.

5. NO UNBALANCED BACKFILLING MUST BE DONE AGAINST MASONRY OR CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.

6. CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING MUST BE PREVENTED.

CAST-IN-PLACE CONCRETE NOTES:

1. CONCRETE MUST BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.

2. CONCRETE MUST BE NORMAL WEIGHT UNLESS OTHERWISE DENOTED AS LW (LIGHTWEIGHT) AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
   A. SLAB-ON-GRADE ..... 3,500 PSI
   B. SUPPORTED FLOOR SLABS ..... 4,000 PSI LW
   C. FOOTINGS ..... 3,000 PSI
   D. CONCRETE NOT OTHERWISE NOTED ..... 4,000 PSI

3. REINFORCING MATERIALS MUST BE AS FOLLOWS:
   A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
   B. WELDED WIRE REINFORCEMENT - ASTM A1064, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.

4. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.

5. CONCRETE COVER TO REINFORCING STEEL MUST EQUAL THE FOLLOWING, UNLESS OTHERWISE NOTED:
   A. SURFACES AGAINST EARTH ..... 3"
   B. SURFACES NOT CAST AGAINST EARTH, BUT EXPOSED TO EARTH OR WEATHER IN THE FINAL CONDITION
      #5 AND SMALLER ..... 1 1/2"
      #6 AND LARGER ..... 2"
   C. BEAMS, GIRDERS, COLUMNS, AND WALLS ABOVE FINISHED FIRST FLOOR ..... 1 1/2"
   D. ELEVATED SLABS ..... 3/4"

6. LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.

7. LAP CONTINUOUS REINFORCING STEEL PER SCHEDULES AND TYPICAL DETAILS

8. DO NOT EMBED CONDUIT AND PIPING IN OR PENETRATE THROUGH CAST-IN-PLACE CONCRETE ELEMENTS UNLESS OTHER NOTED.

CONCRETE MIX DESIGN NOTES:

1. MIX DESIGNS COMPRESSIVE STRENGTHS (f'c) BASED ON 28 DAY DESIGN STRENGTH, UNLESS OTHERWISE NOTED.

2. CONCRETE NOT OTHERWISE NOTED:
   A. MINIMUM COMPRESSIVE STRENGTH (f'c) = 4000 PSI

3. FOUNDATIONS (SPREAD FOOTINGS, MAT FOOTINGS):
   A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C1
   B. MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,000PSI
   C. MAXIMUM W/CM = 0.5
   D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
   E. SLUMP = 5" MAX PLUS OR MINUS 1", OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXURE
   F. AIR CONTENT = NO REQUIREMENTS
   G. AGGREGATE = NORMAL WEIGHT, ¾" NOMINAL
   H. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.30 PERCENT BY WEIGHT OF CEMENT

4. INTERIOR FLOOR SLAB-ON-GRADE:
   A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C0
   B. MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,500PSI
   C. MAXIMUM W/CM = 0.5
   D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
   E. SLUMP = 5" MAX PLUS OR MINUS 1", OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXURE
   F. AIR CONTENT = DO NOT ALLOW AIR CONTENT IN TROWEL FINISHED FLOORS TO EXCEED 3%
   G. AGGREGATE = NORMAL WEIGHT, ¾" NOMINAL
   H. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 1.00 PERCENT BY WEIGHT OF CEMENT

5. ELEVATED COMPOSITE CONCRETE SLABS (LIGHTWEIGHT):
   A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C0
   B. MINIMUM COMPRESSIVE STRENGTH (f'c) = 4,000PSI
   C. MAXIMUM W/CM = 0.45
   D. CALCULATED EQUILIBRIUM UNIT WEIGHT: 115 PCF PLUS OR MINUS 3 PCF PER ASTM C567
   E. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
   F. SLUMP = 4" PLUS OR MINUM 1" OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXURE
   G. AIR CONTENT = 5.5% PLUS OR MINUS 1.5% AT POINT OF DELIVERY
   H. AGGREGATE = LIGHTWEIGHT, ¾" NOMINAL

6. SITE RETAINING WALLS AND ASSOCIATED FOUNDATIONS:
   A. EXPOSURE CLASS = ACI 318 F2, S0, W0, C1
   B. MINIMUM COMPRESSIVE STRENGTH (f'c) = 4,000PSI
   C. MAXIMUM W/CM = 0.45
   D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
   E. SLUMP = 5" MAX PLUS OR MINUS 1", OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXURE
   F. AIR CONTENT = 6% PLUS OR MINUS 1.5% AT POINT OF DELIVERY
   G. AGGREGATE = NORMAL WEIGHT, ¾" NOMINAL
   LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.30 PERCENT BY WEIGHT OF CEMENT

THESE DRAWINGS ARE RELEASED FOR THE FOLLOWING USE. ANY OTHER USE OF THESE DRAWINGS IS AT THE RISK OF THE CONTRACTOR OR OTHERS USING THESE DRAWINGS FOR THAT UNAUTHORIZED USE. LYNCH MYKINS IS NOT RESPONSIBLE FOR ADDITIONAL COSTS DUE TO CHANGES, COORDINATION OR ADDITIONAL SCOPE OF WORK REQUIRED DUE TO SUCH UNAUTHORIZED USE.

- [ ] PRELIMINARY BUDGET PRICING
- [ ] EARLY FOUNDATION PACKAGE
- [ ] MILL ORDER PACKAGE
- [ ] EARLY STEEL PACKAGE
- [x] PERMIT SET
- [ ] CONSTRUCTION SET

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SEALS





05/02/2025

DKA JOB NUMBER
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REVISIONS

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PM:
Drawn By: KDO
Plot Date: 4/28/2025 12:08:53 PM

DATE ISSUED

PERMIT DRAWINGS
05/02/2025

SHEET TITLE
GENERAL NOTES

S001

CONCRETE MASONRY NOTES:

1. CONCRETE MASONRY MATERIALS AND CONSTRUCTION MUST CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (TMS 402 / ACI 530 / ASCE 5) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602 / ACI 530.1 / ASCE 6).

2. CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C90 AND MUST BE MADE WITH LIGHTWEIGHT AGGREGATE.

3. COMPRESSIVE STRENGTH OF MASONRY MUST BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY, f'm, MUST BE 2,500 PSI AT 28 DAYS.

4. MORTAR MUST BE TYPE 'M' OR 'S' AND MUST COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.

5. GROUT MUST COMPLY WITH EITHER THE PROPORTIONS OR PROPERTIES SPECIFICATION OF ASTM C476 AND AS FOLLOWS:
   A. PROPORTIONS SPECIFICATION: THIS MIX CANNOT CONTAIN ADMIXTURES. WATER MUST BE ADDED IN THE FIELD IN ORDER TO ACHIEVE A SLUMP OF 8-11 INCHES WHEN PLACED IN THE CONCRETE MASONRY UNITS. MORTAR, PEA-GRAVEL CONCRETE, OR "CHAT" MIXES ARE NOT ACCEPTABLE SUBSTITUTES FOR THE SPECIFIED GROUT.
   B. PROPERTIES SPECIFICATION: THIS MIX MUST BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI, WITH 3/8" MAX AGGREGATE AND AN 8-11 INCH SLUMP WHEN PLACED IN THE CONCRETE MASONRY UNITS.

6. REINFORCING STEEL MUST COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.

7. ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1.

8. ALL CMU WALLS MUST BE REINFORCED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL. WHERE REINFORCING IS INTERRUPTED, OFFSET AND LAP ADDITIONAL BARS PER THE "TYPICAL OFFSET SPLICE AT MASONRY WALL DETAILS."

9. LAP ALL REINFORCING PER SCHEDULE BELOW, TYPICAL UNLESS OTHERWISE NOTED:

MASONRY LAP SCHEDULE	
REINF SIZE	72 x BAR DIAMETER
#4	36"
#5	45"
#6	54"
#7	63"
#8	72"

10. PROVIDE MECHANICAL SPLICES FOR ALL #9 BARS AND LARGER AND FOR ALL BARS AT CONTRACTOR'S OPTION.

11. ALL NON-BEARING MASONRY WALLS MUST BE REINFORCED WITH #4 VERTICAL BARS AT 40 INCHES ON CENTER, TYPICAL UNLESS OTHERWISE NOTED. ALL NON-BEARING MASONRY WALLS MUST BE BRACED PER "TYPICAL NON-BEARING MASONRY PARTITION DETAILS".

12. PROVIDE REINFORCING STEEL DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM THE SUPPORTING STRUCTURE. DOWELS MUST HAVE STANDARD ACI HOOKS LAP LENGTH FOR DOWELS FROM FOUNDATION NOT OTHERWISE NOTED MAY BE 36 X BAR DIAMETER.

13. PROVIDE STANDARD 9 GAGE LADDER TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16 INCHES ON-CENTER VERTICALLY AND AT 8 INCHES ON-CENTER VERTICALLY AT PARAPETS. ADDITIONALLY PROVIDE IN THE TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2 FEET BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.

14. PROVIDE VERTICAL CONTROL JOINTS AT 25 FEET ON-CENTER MAXIMUM, OR NOT MORE THAN 1.5 TIMES THE HEIGHT OF THE WALL AT CONTROL JOINTS. PROVIDE CONTINUOUS HORIZONTAL BOND BEAM REINFORCEMENT AS SHOWN IN THE SECTIONS AND DETAILS CONTINUOUS THROUGH CONTROL JOINTS. DO NOT PLACE PLACE GROUT CONTINUOUSLY AT CONTROL JOINTS.

15. DO NOT LOCATE CONTROL JOINTS WITHIN TWO FEET OF STEEL BEAM BEARING LOCATIONS.

16. PLACE GROUT WITH POUR HEIGHT NOT EXCEEDING 5 FEET. CONSOLIDATE EACH POUR BY MECHANICAL VIBRATION. RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT OCCUR.

CONCRETE MASONRY NOTES (CONT'D):

19. GROUT POUR HEIGHT MAY BE INCREASED WHERE THE FOLLOWING CONDITIONS ARE MET:
   A. LIMIT POUR HEIGHT BASED ON A MINIMUM WIDTH OF GROUT SPACE IN ACCORDANCE WITH TABLE 7 OF ACI 530.1 / ASCE 6 / TMS 602.
   B. PLACE GROUT IN LIFTS NOT EXCEEDING THE LIMITATIONS SPECIFIED IN ACE 530.1/ASCE 6/TMS 602.
   C. CONSOLIDATE EACH POUR BY MECHANICAL VIBRATION. RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURED.
   D. FORM A GROUT KEY BETWEEN POURS ACCORDING TO ACI 530.1 / ASCE 6 / TMS 602.
   E. PROVIDE AN INSPECTION PORT (CLEANOUT) AT EACH CELL TO BE GROUTED AT THE BASE OF EACH POUR.
   F. SUBMIT SHOP DRAWINGS DETAILING THE PROPOSED GROUTING PROCEDURE ALONG WITH (3) REFERENCES OF PREVIOUS SUCCESSFUL PROJECTS.

20. MASONRY SHALL BE CONSTRUCTED IN RUNNING BOND PATTERN AND ALL CORNERS TO BE TIED BY MASONRY BOND.

21. SUBMITTALS FOR CONCRETE MASONRY MUST INCLUDE THE FOLLOWING:
   A. PRODUCT DATA/MATERIAL CERTIFICATES: SUBMIT DATA AND CERTIFICATES FOR MASONRY UNITS, CEMENTITOUS MATERIALS, MORTAR ADMIXTURES, PRE-BLENDED DRY MORTAR MIXES, REINFORCING BARS, JOINT REINFORCEMENT, ANCHORS, TIES, AND METAL ACCESSORIES.
   B. REINFORCEMENT SHOP DRAWINGS: SHOW ELEVATIONS OF REINFORCED WALLS. MUST COMPLY WITH ACI DETAILING MANUAL: DETAIL BENDING, LAP LENGTHS, AND PLACEMENT OF UNIT MASONRY REINFORCING BARS.
   C. MIX DESIGNS: SUBMIT MIX DESIGNS FOR EACH TYPE OF MORTAR AND GROUT AND INCLUDE DESCRIPTION OF TYPE AND PROPORTIONS OF INGREDIENTS. INCLUDE TEST REPORTS FOR GROUT MIXES ACCORDING TO ASTM C1019
   D. SHOP DRAWINGS MUST INDICATE THE DATE OF THE STRUCTURAL DRAWINGS THAT WERE USED IN PREPARATION.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.

2. STRUCTURAL STEEL FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE A DESIGNATED AISC-CERTIFIED PLANT.

3. STRUCTURAL STEEL INSTALLER MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE A DESIGNATED AISC-CERTIFIED ERECTOR.

4. STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:
   A. STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A572, Fy = 50 KSI
   B. STRUCTURAL STEEL W-SHAPES - ASTM A992, Fy = 50 KSI
   C. HOLLOW STRUCTURAL SECTIONS (HSS):
      a. SQUARE & RECTANGULAR - ASTM A500, GRADE C, Fy = 50 KSI
   D. ANCHOR RODS - ASTM F1554, GRADE 36
   E. HIGH STRENGTH BOLTS - ASTM F3125, TYPE A325 (TYPICAL UON)
   F. FULLY PRETENSIONED BOLTS - ASTM F1852 (TWIST-OFF TYPE)
   G. WASHERS - ASTM F436
   H. NUTS - ASTM A563
   I. HEADED STUDS - ASTM A29, GRADE 1010 THROUGH 1020

5. UNLESS OTHERWISE NOTED, ALL REQUIRED DESIGN STRENGTHS AND REACTIONS INDICATED ARE BASED ON THE "LOADING COMBINATIONS USING STRENGTH DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN" PER SECTION 1605.2 OF THE BUILDING CODE.

6. STRUCTURAL STEEL FRAME IS CONSIDERED AS UNRESTRAINED FOR FIRE PROTECTION PURPOSES.

7. ALL STEEL CONNECTIONS AND MEMBER REINFORCEMENT MUST BE DESIGNED BY FABRICATOR'S QUALIFIED PROFESSIONAL ENGINEER FOR LOADS INDICATED ON THE DRAWINGS, PER OPTION 3B OF ANSI/AISC 303 AND COMPLETE THE FOLLOWING:
   A. SUBMIT STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE NORTH CAROLINA RESPONSIBLE FOR THEIR PREPARATION.
   B. THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST REVIEW THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO VERIFY THAT THE CONNECTIONS AS DETAILED ON THE SHOP DRAWINGS COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS OF THE FINAL CALCULATIONS.
   C. A REVIEW LETTER, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST BE PROVIDED WITH THE SHOP DRAWINGS AND CALCULATION SUBMITTAL STATING THAT THIS REVIEW AND VERIFICATION HAS BEEN COMPLETED.

8. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION, UNLESS OTHERWISE NOTED.

9. BOLTED CONNECTIONS MAY USE NON-STANDARD HOLES, EXCEPT IN THE FOLLOWING LOCATIONS:
   A. AXIAL CONNECTIONS IDENTIFIED ON PLAN.
   B. CONNECTIONS IDENTIFIED ON PLAN WITH FULL DEPTH STIFFENER PLATES.

STRUCTURAL STEEL NOTES (CONT'D):

10. PROVIDE ANGLE FRAMING AROUND OPENINGS LARGER THAN 6 INCHES IN ANY DIMENSION (INCLUDING ROOF DRAINS) TO SUPPORT STEEL DECK. REFERENCE PLANS AND TYPICAL DETAILS FOR SIZING REQUIREMENTS.

11. WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES MUST BE E70XX LOW HYDROGEN. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 AISC 360.

12. INSTALLATION OF HEADED COMPOSITE STUDS MUST CONFORM TO THE REQUIREMENTS OF AWS D1.1, SECTIONS 9.4 AND 9.5. HEADED COMPOSITE STUDS MUST BE TESTED IN ACCORDANCE WITH AWS D1.1, SECTIONS 9.6, 9.7, AND 9.8 BY A QUALIFIED TESTING AGENCY.

13. COORDINATE ALL MEMBER LOCATIONS, UNIT WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED.

14. SHOP PRIME STEEL SURFACES, EXCEPT THE FOLLOWING:
   A. SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES.
   B. SURFACES TO BE WELDED.
   C. SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS.
   D. GALVANIZED SURFACES.
   E. SURFACES ENCLOSED IN INTERIOR CONSTRUCTION.

15. CLEAN ALL STEEL SURFACES TO BE PAINTED. REMOVE LOOSE RUST, MILL SCALE, SPATTER, SLAG, OR FLUX DEPOSITS. PREPARE SURFACES IN ACCORDANCE WITH SSPC-SP3 SPECIFICATION AND STANDARD.

16. HOT-DIP GALVANIZE AFTER FABRICATION THE FOLLOWING:
   A. ANGLES AND PLATES SUPPORTING MASONRY IN EXTERIOR WALLS.
   B. LINTELS AND LINTEL ASSEMBLIES SUPPORTING MASONRY IN EXTERIOR WALLS.
   C. ALL STEEL EXPOSED TO WEATHER IN THE FINAL CONSTRUCTION.
   D. ITEMS IDENTIFIED AS GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.

17. THE FABRICATION OF STRUCTURAL STEEL FRAMING SHOWN TO BE CURVED MUST BE ACCOMPLISHED BY ROLLING IF FEASIBLE. WHERE ROLLING IS NOT FEASIBLE SUBMIT AN ALTERNATE METHOD FOR REVIEW AND APPROVAL.

18. STEEL MEMBERS MUST BE SPLICED ONLY WHERE INDICATED.

19. LOCATE CONSTRUCTION JOINTS FOR SLABS ON METAL DECK MIDWAY BETWEEN BEAMS WHERE THE JOINT IS PARALLEL TO THE BEAM SPAN. LOCATE JOINTS WITHIN THE MIDDLE THIRD SPAN WHERE THE JOINT IS PERPENDICULAR TO THE BEAM SPAN. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS, UNLESS OTHERWISE SHOWN. REINFORCING TO BE CONTINUOUS THROUGH JOINTS.

20. ALL STAIR LANDINGS, STAIRS, AND STAIR SUPPORTS TO BE DESIGNED BY STAIR MANUFACTURER. LAYOUT OF STAIRS, LANDINGS, HANDRAILS, ETC. SHALL COMPLY WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DESIGN CALCULATIONS AND DRAWINGS STAMPED BY A REGISTERED ENGINEER SHALL BE SUBMITTED TO THE STRUCTURAL EOR FOR REVIEW OF LOADING. ARCHITECT AND STAIR MANUFACTURER ARE RESPONSIBLE TO REVIEW FOR CODE AND ADA COMPLIANCE. STAIR MANUFACTURER SHALL PROVIDE ALL POSTS AND CONNECTIONS TO SUPPORT STAIRS. POSTS AND HANGERS MUST BE LOCATED IN PARTITION WALLS AND LOAD THE STRUCTURE CONCENTRICALLY.

STEEL DECK NOTES:

1. STEEL DECK MUST BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI), "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND THE STEEL DECK INSTITUTE (SDI), "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS."

2. STEEL DECK INSTALLATION MUST COMPLY WITH THE FOLLOWING:
   A. ROOF DECK: 1 1/2" x 20 GAGE TYPE 'B' GALVANIZED. UNLESS OTHERWISE NOTED, ATTACH DECK TO SUPPORTS WITH #10 SELF-TAPPING HEX HEAD SCREWS IN ALL RIBS WHERE END LAPS OCCUR AND AT 12 INCHES ON CENTER ALONG SUPPORTS WITH A 36/4 PATTERN. FASTEN SIDE LAPS WITH #10 SELF-TAPPING HEX HEAD SCREWS AT 1/3 POINTS BETWEEN SUPPORTS. FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH #10 SELF-TAPPING HEX HEAD SCREWS AT SAME SPACING AS SIDELAP FASTENERS.
   B. COMPOSITE DECK: 2" x 20 GAGE GALVANIZED. UNLESS OTHERWISE NOTED, ATTACH DECK TO SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS AT 12 INCHES ON CENTER. FASTEN SIDELAPS WITH #10 SELF-TAPPING HEX HEAD SCREWS AT 1/3 POINTS BETWEEN SUPPORTS. FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8 INCH DIAMETER PUDDLE WELDS AT SAME SPACING AS SIDELAP FASTENERS.

3. STEEL DECK MUST BE INSTALLED PERPENDICULAR TO SUPPORTS AND MUST HAVE A MINIMUM OF THREE CONTINUOUS SPANS. ENDLAPS MUST ONLY OCCUR AT SUPPORTS.

4. WELDING MUST BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL".

5. PERMANENT SUSPENDED LOADS MUST NOT BE SUPPORTED BY STEEL ROOF DECK.

6. STEEL DECK SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST BE GALVANIZED.

7. SHEAR CONNECTORS FOR COMPOSITE FLOOR SYSTEMS SIZE AND LENGTHS MUST BE PER TYPICAL DETAILS AND CONFORM AS SPECIFIED IN "STRUCTURAL STEEL NOTES".

COLD-FORMED METAL FRAMING NOTES:

1. COLD-FORMED METAL FRAMING MUST BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS".

2. SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF COLD-FORMED METAL FRAMING AND PREFABRICATED COLD FORMED METAL TRUSSES. SHOP DRAWINGS MUST INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE CONNECTIONS, SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS AND CONSTRUCTION SEQUENCE REQUIRED FOR PROPER AND SAFE INSTALLATION.

3. WELDING MUST BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". TOUCH UP ALL WELDS WITH SPECIFIED COATING SYSTEMS.

4. COLD-FORMED METAL FRAMING MEMBERS MUST CONFORM TO ASTM C955, AND BE FORMED OF CORROSION-RESISTANT STEEL CONFORMING TO ASTM A653 AND ASTM C955 WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL AND THINNER MEMBERS AND 50 KSI FOR ALL OTHER MEMBERS.

5. MEMBER SECTION PROPERTIES MUST CONFORM TO PART 'I' OF THE "COLD-FORMED STEEL DESIGN MANUAL."

6. COLD-FORMED METAL FRAMING DESIGN LOADS MUST BE AS INDICATED IN THE "GENERAL NOTES".

7. COLD-FORMED METAL FRAMING MEMBERS, HEADERS AND CONNECTIONS SHOWN ON STRUCTURAL AND ARCHITECTURAL DRAWINGS ARE SCHEMATIC ONLY AND MUST BE DESIGNED TO MEET PERFORMANCE SPECIFICATION REQUIREMENTS.

8. PROVIDE BRIDGING LINES AT 4'-0" MAXIMUM ON CENTER IN ALL WALLS UNLESS OTHERWISE INDICATED. BRIDGING MUST BE FULLY INSTALLED AND ANCHORED AT ENDS BEFORE SUPERIMPOSING LOADS ONTO THE STUDS.

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SEALS





05/02/2025

DKA JOB NUMBER
2418

REVISIONS

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PERMIT DRAWINGS
05/02/2025

SHEET TITLE
GENERAL NOTES

S002

PREFABRICATED COLD-FORMED METAL TRUSS NOTES:

1. PREFABRICATED COLD-FORMED METAL TRUSSES MUST BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - TRUSS DESIGN", WITH SUPPLEMENT 2, DATED 2008.

2. SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF PREFABRICATED COLD FORMED METAL TRUSSES. SHOP DRAWINGS MUST INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE CONNECTIONS, SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS AND CONSTRUCTION SEQUENCE REQUIRED FOR PROPER AND SAFE INSTALLATION. INCLUDE ALL TRUSS SPLICE DETAILS AND TRUSS TO TRUSS CONNECTION DETAILS. SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO MEMBER LOADS MUST BE CONSIDERED IN THE DESIGN.

3. WELDING MUST BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". TOUCH UP ALL WELDS WITH SPECIFIED COATING SYSTEMS.

4. COLD-FORMED METAL FRAMING MEMBERS MUST CONFORM TO ASTM C955, AND BE FORMED OF CORROSION-RESISTANT STEEL CONFORMING TO ASTM A653 AND ASTM C955 WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL AND THINNER MEMBERS AND 50 KSI FOR ALL OTHER MEMBERS.

5. MEMBER SECTION PROPERTIES MUST CONFORM TO PART 'I' OF THE "COLD-FORMED STEEL DESIGN MANUAL."

6. COLD-FORMED METAL TRUSS DESIGN LOADS MUST BE AS INDICATED IN THE "GENERAL NOTES" AND AS FOLLOWS:
   A. TOP CHORD DEAD LOAD: 10 PSF (PLUS ADDITIONAL 5 PSF AT SUPERIMPOSED ROOF FRAMING AREAS)
   B. WIND LOAD: WHEN CALCULATING NET UPLIFT REACTIONS, USE MAXIMUM RESISTING DEAD LOAD = 7 PSF ON TOP CHORD AND 0 PSF ON BOTTOM CHORD.
   C. BOTTOM CHORD DEAD LOAD: 10 PSF

7. PROVIDE TRUSS HOLD DOWN ANCHORS CAPABLE OF RESISTING CALCULATED REACTIONS. PROVIDE ENGINEERING DATA AND CONNECTION DETAILS FOR HOLD-DOWN ANCHORS WITH SHOP DRAWING SUBMITTAL.

8. PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION AND PERFORMANCE OF THE TRUSSES. THE GUIDELINES SET FORTH IN LGSEA TECHNICAL NOTE 551d, "DESIGN GUIDE FOR CONSTRUCTION BRACING OF COLD-FORMED STEEL TRUSSES" AND LGSEA TECHNICAL NOTE 551e, "DESIGN GUIDE FOR PERMANENT BRACING OF COLD-FORMED STEEL TRUSSES" MUST BE CONSIDERED AS MINIMUM REQUIREMENTS.

9. WHERE MULTIPLE TRUSSES ARE INDICATED, SCAB CONTINGENT TRUSS MEMBERS TOGETHER WITH #10 SELF-TAPPING HEX HEAD SCREWS AT 12 INCHES ON CENTER ALONG TOP AND BOTTOM CHORDS.

10. ALL CONNECTION HARDWARE FOR TRUSS-TO-TRUSS CONNECTIONS AND TRUSS TO SUPPORTING STRUCTURE CONNECTIONS MUST BE SUPPLIED BY THE TRUSS MANUFACTURER.

11. FOR ADJACENT TRUSSES WHERE THE WEB CONFIGURATION IS CAPABLE OF CONTAINING A RECTANGLE 42 INCHES HIGH BY 24 INCHES WIDE OR GREATER BETWEEN THE TOP OF THE BOTTOM CHORD AND THE BOTTOM OF ANY OTHER TRUSS MEMBER, SUCH AREAS MUST HAVE THE BOTTOM CHORD DESIGNED FOR A LIVE LOAD OF 20 PSF IN ADDITION TO ANY OTHER LOADS SHOWN.

STRUCTURAL DELEGATED DESIGN ELEMENT NOTES:

1. THE FOLLOWING BUILDING ELEMENTS REQUIRE DELEGATED DESIGN AND ENGINEERING BY A SPECIALTY STRUCTURAL ENGINEER:

   A. METAL STAIRS
   B. GLAZING ASSEMBLY CONNECTIONS TO THE STRUCTURE
   C. COLD-FORMED METAL FRAMING (CFMF)
   D. STRUCTURAL STEEL CONNECTIONS
   E. CURVED STEEL LINTEL
   F. PRE-FABRICATED CANOPIES AND AWNINGS
   G. PRE-FABRICATED ROOF TRUSSES
   H. TEMPORARY SHORING AND/OR EXCAVATION SUPPORT
   I. MECHANICAL, ELECTRICAL, AND PLUMBING SUPPORTS AND DISTRIBUTIONS SYSTEMS, INCLUDING BRACING AND ATTACHMENTS

   REFERENCE SPECIFICATIONS FOR COMPLETE REQUIREMENTS

2. SUBMIT COMPLETE CALCULATIONS AND SHOP DRAWINGS, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THE DESIGN, INCLUDING DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE A SUMMARY OF THE CONTROLLING LOAD CASES FOR EACH LOCATION.

3. IN ADDITION TO THEIR OWN DEAD WEIGHT AND THE DEAD LOADS SHOWN OR INDICATED IN THE DRAWINGS, MEMBERS MUST BE DESIGNED TO SUPPORT THE LOADS INDICATED IN THE GENERAL NOTES.

4. CONNECTION DETAILS SHOWN ARE SCHEMATIC ONLY. ALL CONNECTIONS MUST BE DESIGNED AND DETAILED BY THE MANUFACTURER TO SUIT THE SPECIFIED LOADS. CONNECTIONS MUST ACCOUNT FOR THERMAL MOVEMENT, DEFLECTION, CREEP, MANUFACTURING TOLERANCES, AND ERECTION TOLERANCES. DETAIL ALL CONNECTIONS ON SHOP DRAWINGS.

5. THE CONTRACTOR MUST BE RESPONSIBLE FOR THE COORDINATION OF ALL SPECIALTY STRUCTURAL ELEMENTS AND COST ASSOCIATED WITH A CONTRACTOR INITIATED CHANGE IN BUILDING STRUCTURE, INCLUDING CONSTRUCTION COSTS AND RE-ENGINEERING COSTS.

POST-INSTALLED ANCHOR NOTES:

1. ANCHORS TO BE POST-INSTALLED ONLY WHERE INDICATED ON CONSTRUCTION DOCUMENTS. ANY SUBSTITUTE OF CAST-IN ANCHOR TO POST-INSTALLED ANCHORS MUST BE SUBMITTED AS A REQUEST FOR DEVIATION TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

2. ALL POST INSTALLED ANCHORS INDICATED ON THE DRAWINGS ARE BY HILTI, INC, AND MUST BE CONSIDERED THE BASIS OF DESIGN PRODUCT. WHERE NOT EXPLICITLY INDICATED IN THE DRAWINGS, THE FOLLOWING ANCHORS/ADHESIVES MUST BE USED:
   A. ANCHORAGE TO CONCRETE
      1. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC40U) WITH STEEL THREADED ROD PER ICC ESR-3187.
      2. SCREW ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         a. HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR-3027.
   B. REBAR DOWELING INTO CONCRETE
      1. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC 40-U) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.
   C. ANCHORAGE TO SOLID GROUTED MASONRY
      1. ADHESIVE ANCHORS USE:
         a. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM (ICC PENDING).
         b. STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD.
      2. MECHANICAL ANCHORS USE:
         a. HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR 3056.
   D. ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY
      1. ADHESIVE ANCHORS USE:
         a. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM PERICCESR-3342.
         b. STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.
         c. THE APPROPRIATE SIZE SCREEN TUBE MUST BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.

3. ALTERNATE POST INSTALLED ANCHOR PRODUCTS MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW AND POSSIBLE APPROVAL. ALL SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE. ALTERNATE PRODUCTS MAY REQUIRE MODIFICATIONS TO ANCHOR DIAMETER, SPACING, AND EMBEDMENT.

4. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

5. THE CONTRACTOR MUST ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.

6. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

7. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR MUST LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN OR GPR.

8. ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS SPECIAL INSPECTIONS TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFERENCE THE STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.

9. ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS INSPECTIONS BY THE OWNER'S MATERIALS TESTING AGENCY TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

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SEALS





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DKA JOB NUMBER
2418

REVISIONS

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PERMIT DRAWINGS
05/02/2025

SHEET TITLE
GENERAL NOTES

S003

DRAWINGS LEGEND

GENERAL ANNOTATIONS

SECTIONS

X / SX = SECTION/DETAIL MARK
SECTION/DETAIL NUMBER/LETTER
SHEET NUMBER WHERE SECTION/DETAIL MARK IS DRAWN

X / SX | SX = SECTION/DETAIL MARK
SECTION/DETAIL NUMBER/LETTER
SHEET NUMBER WHERE SECTION/DETAIL MARK IS DRAWN
SHEET NUMBER WHERE SECTION/DETAIL MARK IS CUT

COLUMNS

GRID = COLUMN GRID MARK

GENERAL PLANS

X = PLAN KEY NOTE MARK
± = FIELD VERIFY
SL = DIRECTION OF SLOPE
= CHANGE IN ELEVATION
= CHANGE IN SLOPE

SHALLOW FOUNDATIONS

SF SF / PIPE = PIPE CROSSING FOOTING
= SLAB-ON-GRADE JOINT
WFX = WALL FOOTING MARK
CFX = COLUMN FOOTING MARK

FLOOR AND ROOF FRAMING

RTU-X XXXX# = MECHANICAL UNIT SUPPORTED ABOVE FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS
RTU-X XXXX# = MECHANICAL UNIT SUPPORTED BELOW FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS
= FLOOR / ROOF OPENING
= WARP LINE OF ROOF DECK
= HORIZONTAL BRIDGING
= CROSS BRIDGING

ELEVATIONS

FOUNDATIONS

(-X'-X") = TOP OF FOOTING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
(-X'-X") = TOP OF PILE CAP / GRADE BEAM ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
<-X'-X"> = TOP OF EXISITNG FOOTING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
X'-X" = TOP OF SLAB ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

FLOORS AND ROOF

BOD = +X'-X" = BOTTOM OF DECK ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
TOS = +X'-X" = TOP OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
BOS = +X'-X" = BOTTOM OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
TOM = +X'-X" = TOP OF MASONRY ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"
TBE = +X'-X" = TRUSS BEARING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

STEEL

CONNECTIONS

= MOMENT CONNECTION
= AXIAL CONNECTION
= FULL DEPTH STIFFENER CONNECTION
= JOIST BOTTOM CHORD EXTENSION
= BEAM BOTTOM FLANGE BRACE
= BEAM SPLICE
KB = KNUCKLED BEAM

COMPOSITE BEAMS

BEAM SIZE
NUMBER OF HEADED STUDS
MOMENT REACTION (KIP-FT)
CAMBER
W16x26 (36) [2"]
V 60 / M 20 / A 15
V 60 / M 20 / A 15
= COMPOSITE BEAM NOTATION
AXIAL REACTION (KIPS)
SHEAR REACTION (KIPS) IF GREATER THAN LOADS GIVEN IN "MINIMUM BEAM REACTION SCHEDULE"

MISC ANNOTATIONS

SJ = JOIST SLIP CONNECTION
SG = JOIST GIRDER SLIP CONNECTION
SB = BEAM SLIP CONNECTION
= JOIST GIRDER MOMENT MARK

MASONRY

WALLS

= BEARING WALL EXTENDING ABOVE FLOOR / ROOF
= BEARING WALL TERMINATING BELOW FLOOR / ROOF
= NON-BEARING WALL BEARING ON FLOOR BELOW
= EXTERIOR WALL TERMINATING BELOW FLOOR / ROOF
= CMU SHEARWALL
= CMU FIREWALL
W1 = WALL TYPE MARK

STEEL LINTELS

L-X = STEEL LINTEL MARK
A = STEEL LINTEL BEARING PLATE MARK

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	KCJ	KEYED CONSTRUCTION JOINT
ARCH	ARCHITECT	Ld	REBAR TENSION DEVELOPMENT LENGTH
BD	BAR DIAMETER	Ldc	REBAR COMPRESSION DEVELOPMENT LENGTH
BF	BRACED FRAME	Ldh	HOOKED REBAR TENSION DEVELOPMENT LENGTH
BEJ	BUILDING EXPANSION JOINT	Ls	REBAR TENSION SPLICE LENGTH
BLDG	BUILDING	Lsc	REBAR COMPRESSION SPLICE LENGTH
BM	BEAM	L	LOW
BOD	BOTTOM OF DECK	LLH	LONG LEG HORIZONTAL
BOS	BOTTOM OF STEEL	LLV	LONG LEG VERTICAL
BOT, B	BOTTOM	LSH	LONG SIDE HORIZONTAL
BRG	BEARING	LSV	LONG SIDE VERTICAL
BTWN	BETWEEN	LTWT	LIGHTWEIGHT
C TO C	CENTER TO CENTER	LWC	LIGHTWEIGHT CONCRETE
CFMF	COLD-FORMED METAL FRAMING	MAS	MASONRY
CJ	CONTROL JOINT	MATL	MATERIAL
CL	CENTERLINE	MAX	MAXIMUM
CLR	CLEAR	MECH	MECHANICAL
CMU	CONCRETE MASONRY UNIT	MF	MOMENT FRAME
COL	COLUMN	MFR	MANUFACTURER
CONC	CONCRETE	MID	MIDDLE
CONN	CONNECTION	MIN	MINIMUM
CONSTR	CONSTRUCTION	MOD	MODIFY
CONT	CONTINUOUS	MOS	MIDDEPTH OF SLAB
COORD	COORDINATE	NOM	NOMINAL
CTR	CENTER	NS	NEAR SIDE
CTRD	CENTERED	NTS	NOT TO SCALE
DBA	DEFORMED BAR ANCHOR	OC	ON CENTER
DBL	DOUBLE	OPH	OPPOSITE HAND
DC	DIAPHRAGM CHORD	OPNG	OPENING
DCJ	DOWELED CONSTRUCTION JOINT	PAF	POWDER ACTUATED FASTENER
DIA, Ø	DIAMETER	PAR	PARALLEL
DIST	DISTANCE	PC	PIECE
DJ	DOUBLE JOIST	PEMB	PRE-ENGINEERED METAL BUILDING
DWGS	DRAWINGS	PEN	PENETRATE, PENETRATION
E	EAST	PERP	PERPENDICULAR
EA	EACH	PL	PLATE
EF	EACH FACE	PT	POST-TENSIONED (CONC) PRESSURE TREATED (WOOD)
EJ	EXPANSION JOINT	R	RADIUS
EL	ELEVATION	REF	REFERENCE, REFER TO
ELEV	ELEVATOR	REINF	REINFORCE, REINFORCED, REINFORCING
EMBED	EMBEDMENT	REQD	REQUIRED
EOD	EDGE OF DECK	REQMTS	REQUIREMENTS
EOS	EDGE OF SLAB	SCHED	SCHEDULE
EQ	EQUAL	SF	STEPPED FOOTING
EW	EACH WAY	SGB	STEPPED GRADE BEAM
EXIST	EXISTING	SIM	SIMILAR
EXP	EXPANSION	SJ	SAWED JOINT
EXT	EXTERIOR	SL	SLOPE
FD	FLOOR DRAIN	SOG	SLAB-ON-GRADE
FDN	FOUNDATION	SPF	SIDEPLATE FRAME
FO	FACE OF	STD	STANDARD
FF EL	FINISHED FLOOR ELEVATION	STIFF	STIFFENER
FIN	FINISH	TBE	TRUSS BEARING ELEVATION
FIN FLR	FINISHED FLOOR	T&B	TOP & BOTTOM
FOB	FACE OF BUILDING	T&G	TONGUE AND GROOVE
FOC	FACE OF CONCRETE	THK	THICKNESS
FOM	FACE OF MASONRY	TOC	TOP OF CONCRETE
FOS	FACE OF SLAB/ STUD	TOF	TOP OF FOOTING
FRMG	FRAMING	TOM	TOP OF MASONRY
FTG	FOOTING	TOCP	TOP OF CONCRETE PEDESTAL
FS	FAR SIDE	TOS	TOP OF STEEL
FV, ±	FIELD VERIFY	TS	THICKENED SLAB
GALV	GALVANIZED	TS/STR	THICKENED SLAB AT STAIR
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GEN	GENERAL	UON	UNLESS OTHERWISE NOTED
GR BM	GRADE BEAM	VERT	VERTICAL
H	HIGH	W	WEST
HK	HOOK	W/	WITH
HORIZ	HORIZONTAL	WP	WORKING POINT
HSS	HOLLOW STRUCTURAL SECTION	WSP	WOOD STRUCTURAL PANEL(S)
HSA	HEADED STUD ANCHOR	WWR	WELDED WIRE REINFORCING
HT	HEIGHT		
HVY	HEAVY		
INT	INTERIOR		
JBE	JOIST BEARING ELEVATION		
JT	JOINT		
KCJ	KEYED CONSTRUCTION JOINT		

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- ☐ PRELIMINARY BUDGET PRICING
- ☐ EARLY FOUNDATION PACKAGE
- ☐ MILL ORDER PACKAGE
- ☐ EARLY STEEL PACKAGE
- ☐ PERMIT SET
- ☐ CONSTRUCTION SET

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SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING COMPANY C-4360 SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044996 SCOTT M. FRANCIS

05/02/2025

DKA JOB NUMBER
2418

REVISIONS

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DATE ISSUED
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05/02/2025

SHEET TITLE
PLAN LEGEND AND ABBREVIATIONS

S004

STATEMENT OF SPECIAL INSPECTION SERVICES

PROJECT:
LOCATION:
OWNER'S REPRESENTATIVE:
OWNER'S ADDRESS:

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT, THE NAME OF THE SPECIAL INSPECTOR, THE IDENTITY OF OTHER APPROVED AGENCIES RETAINED FOR CONDUCTING SPECIAL INSPECTIONS, AND THE REQUIRED INSPECTOR QUALIFICATIONS. THIS STATEMENT OF SPECIAL INSPECTIONS WAS PREPARED BY THE FOLLOWING DESIGNERS OF RECORD:

STRUCTURAL	SCOTT M. FRANCIS		
	(Type or print name)	(Signature)	(Date)
ARCHITECTURAL			
	(Type or print name)	(Signature)	(Date)
MECHANICAL			
	(Type or print name)	(Signature)	(Date)
OTHER			
	(Type or print name)	(Signature)	(Date)

THE SPECIAL INSPECTOR MUST KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND MUST FURNISH REPORTS TO THE AUTHORITY HAVING JURISDICTION AND THE DESIGNERS OF RECORD. REPORTS MUST INDICATE IF THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCOVERED DISCREPANCIES MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE AUTHORITY HAVING JURISDICTION AND THE DESIGNERS OF RECORD. THE SPECIAL INSPECTIONS PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS MUST BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION, OWNER, AND THE DESIGNERS OF RECORD.

INTERIM REPORT FREQUENCY: MONTHLY

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

OWNER'S AUTHORIZATION

(Signature) (Date)

ACCEPTED FOR THE AHJ BY:

(Signature) (Date)

SCHEDULE OF SPECIAL INSPECTION SERVICES [A]

THE FOLLOWING COMPRISES THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS.

- [X] STRUCTURAL STEEL & HIGH STRENGTH BOLTING
- [X] WELDING OF STRUCTURAL STEEL
- [X] COLD-FORMED STEEL DECK
- [ ] OPEN-WEB STEEL JOISTS & JOIST GIRDERS
- [X] COLD-FORMED STEEL FRAMING
- [X] CONCRETE CONSTRUCTION
- [X] MASONRY CONSTRUCTION [C]
- [ ] WOOD CONSTRUCTION
- [X] SOILS
- [ ] DRIVEN DEEP FOUNDATIONS
- [ ] CAST-IN-PLACE DEEP FOUNDATIONS
- [ ] HELICAL PILE FOUNDATIONS
- [ ] RAMMED AGGREGATE PIERS & STONE COLUMNS
- [X] SPRAYED FIRE-RESISTANT MATERIAL
- [X] MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS
- [ ] EXTERIOR INSULATION & FINISH SYSTEM
- [X] FIRE-RESISTANT PENETRATIONS & JOINTS
- [ ] SMOKE CONTROL
- [ ] RETAINING WALL & SYSTEMS > 5 FEET
- [ ] SPECIAL INSPECTIONS FOR WIND RESISTANCE
- [ ] SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

A. THE INSPECTION FREQUENCY INDICATED ON THE FOLLOWING INSPECTION TABLES ARE "C" CONTINUOUS, "P" PERIODIC, & "O" RANDOM ON A DAILY BASIS.
B. LEVEL A IS THE MINIMUM INSPECTION PROGRAM FOR EMPIRICALLY / PRESCRIPTIVELY DESIGNED MASONRY IN RISK CATEGORY I, II OR III STRUCTURES. LEVEL B IS THE MINIMUM INSPECTION PROGRAM FOR EMPIRICALLY / PRESCRIPTIVELY DESIGNED MASONRY IN RISK CATEGORY IV STRUCTURES AND ENGINEERED MASONRY IN RISK CATEGORY I, II OR III STRUCTURES. LEVEL C IS THE MINIMUM INSPECTION PROGRAM FOR ENGINEERED MASONRY IN RISK CATEGORY IV STRUCTURES. ENGINEERED MASONRY STRUCTURES ARE THOSE DESIGNED IN ACCORDANCE WITH PORTIONS OF THE TMS 402-13 / ACI 530-13/ASCE 5-13 OTHER THAN PART 4 OR APPENDIX A.

INSPECTION AGENTS	FIRM NAME & POINT OF CONTACT	ADDRESS / PHONE / E-MAIL
1. SPECIAL INSPECTOR (SI-1)		
2. TESTING AGENCY (TA-1)		
3. TESTING AGENCY (TA-2)		
4. GEOTECHNICAL ENGINEER (GE-1)		
5. OTHER (O-1)		

NOTE: THE INSPECTION AND TESTING AGENT(S) MUST BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL OF RECORD ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE STATE CONSTRUCTION OFFICE, PRIOR TO COMMENCING WORK.

SEISMIC DESIGN CATEGORY: [ ] A [ ] B [X] C [ ] D

BASIC WIND SPEED (V_{ASD}): [X] 90-109 MPH [ ] 110-119 MPH [ ] >120 MPH

WIND EXPOSURE CATEGORY: [ ] B [X] C [ ] D

STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING

INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA: AISC 360	REFERENCE FOR CRITERIA: NCBC
1. FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES				
a. VERIFY FABRICATOR QUALIFICATIONS	X	C		1704.2.5.1
b. REVIEW MATERIAL TEST REPORTS & CERTIFICATIONS	X	C	N5.2	
c. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION	X	C		1704.5
2. INSPECTIONS PRIOR TO HIGH-STRENGTH BOLTING AT PRETENSIONED AND SLIP-CRITICAL JOINTS				
a. COLLECT MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	X	C	TBL N5.6-1	
b. FASTENERS ARE MARKED PER ASTM REQUIREMENTS	X	P	TBL N5.6-1	
c. ENSURE CORRECT FASTENERS AND BOLTING PROCEDURES ARE SELECTED FOR JOINT DETAILS	X	P	TBL N5.6-1	
d. VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION WHEN SPECIFIED, COMPLY WITH THE CONSTRUCTION DOCUMENTS	X	P	TBL N5.6-1	
e. OBSERVE AND DOCUMENT PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONAL FOR FASTENER ASSEMBLIES AND METHODS	X	P	TBL N5.6-1	
f. VERIFY PROPER STORAGE PROVIDED FOR ALL FASTENER COMPONENTS	X	P	TBL N5.6-1	
3. INSPECTIONS DURING HIGH-STRENGTH BOLTING AT PRETENSIONED AND SLIP-CRITICAL JOINTS				
a. ENSURE CORRECT FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS, WHEN SPECIFIED, ARE POSITIONED AS REQUIRED	X	P	TBL N5.6-2	
b. VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING	X	P	TBL N5.6-2	
c. VERIFY FASTENER COMPONENTS NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	X	P	TBL N5.6-2	
d. ENSURE FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC, PROGRESSING FROM THE MOST RIGID POINT TOWARDS FREE EDGES	X	P	TBL N5.6-2	
4. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS AFTER HIGH-STRENGTH BOLTING IS COMPLETE	X	C	TBL N5.6-3	
5. STRUCTURAL DETAILS				
a. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF ANCHOR RODS AND OTHER EMBEDDED ITEMS SUPPORTING STRUCTURAL STEEL	X	P	N5.7	
b. INSPECTION OF FABRICATED ASSEMBLIES & ERECTED STEEL FRAMING VERIFYING COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS	X	P	N5.7	
6. COMPOSITE CONSTRUCTION				
a. VERIFY PLACEMENT & INSTALLATION OF STEEL DECK	X	P	TBL N6.1	
b. OBSERVE PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X		TBL N6.1	
c. DOCUMENT ACCEPTANCE OR REJECTION OF COMPOSITE CONSTRUCTION ELEMENTS	X	P	TBL N6.1	

WELDING OF STRUCTURAL STEEL

INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA: AISC 360	REFERENCE FOR CRITERIA: NCBC
1. INSPECTIONS PRIOR TO WELDING			N5.4	
a. COLLECT & REVIEW WELDING PROCEDURE SPECIFICATION (WPS) AND VERIFY MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	X	C	TBL N5.4-1	
b. CONFIRM WELD MATERIAL TYPE & GRADE	X	P	TBL N5.4-1	
c. CONFIRM METHOD OF WELDER IDENTIFICATION	X	P	TBL N5.4-1	
d. INSPECTION OF FIT-UP FOR GROOVE & FILLET WELDS INCLUDING ACCESS HOLE CONFIGURATION & FINISH	X	P	TBL N5.4-1	
2. INSPECTIONS DURING WELDING			N5.4	
a. VERIFY WELDER QUALIFICATIONS	X	P	TBL N5.4-2	
b. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES	X	P	TBL N5.4-2	
c. MONITOR ENVIRONMENTAL CONDITIONS	X	P	TBL N5.4-2	
d. MONITOR PROPER IMPLEMENTATION OF WPS	X	P	TBL N5.4-2	
e. INSPECTION OF WELDING TECHNIQUES INCLUDING NO WELDING OVER CRACKED TACK WELDS	X	P	TBL N5.4-2	
3. INSPECTIONS AFTER WELDING			N5.4, N5.5	
a. VERIFY WELDS HAVE BEEN CLEANED	X	P	TBL N5.4.3	
b. CONFIRM THE INSTALLED SIZE, LENGTH AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS	X	C	TBL N5.4.3	
c. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	C	TBL N5.4.3	
d. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1	X	C	TBL N5.4.3	
e. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUITY PLATES AND STIFFENERS	X	C	TBL N5.4.3	
f. BACKING AND WELD TABS REMOVED PER CONTRACT DOCUMENTS	X	C	TBL N5.4.3	
g. OBSERVE AND INSPECT WELD REPAIR ACTIVITIES	X	C	TBL N5.4.3	
h. FOR RISK CATEGORY III OR IV STRUCTURES, CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16" AT BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING	X	C	N5.5B, N5.5E	
i. FOR RISK CATEGORY II STRUCTURES, CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16" AT BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING	[ ]	P	N5.5.B, N5.5F	
j. CONDUCT MAGNETIC PARTICLE TESTING (MT) OR LIQUID PENETRANT TESTING (PT) AT THERMALLY CUT SURFACES OF ACCESS HOLES FOR ROLLED SECTION WITH TF > 2" AND BUILT-UP SHAPE WITH TW > 2"	X	C	N5.5C	
k. RADIOGRAPHIC OR ULTRASONIC INSPECTION AT JOINTS SUBJECT TO FATIGUE	X	C	N5.5D, TBL A-3.1	
l. DOCUMENT ACCEPTANCE / REJECTION OF WELDED JOINTS AND MEMBERS	X	C	TBL N5.4-3, N5.5G	

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SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING SEAL 044996 ENGINEER SCOTT M. FRANCIS

NORTH CAROLINA PROFESSIONAL ENGINEERING SEAL C-4360 PRINCIPAL STRUCTURAL ENGINEER

05/02/2025

DKA JOB NUMBER
2418

REVISIONS

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SHEET TITLE
SPECIAL INSPECTIONS

S011

COLD-FORMED STEEL DECK

	INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
				SDI QA/QC	NCBC
1.	PRIOR TO DECK PLACEMENT, VERIFY DECK AND DECK ACCESSORIES COMPLY WITH THE CONSTRUCTION DOCUMENTS	X	C	TBL 1.1	
2.	INSPECTION TASKS AFTER DECK PLACEMENT				
a.	VERIFY THE INSTALLATION OF DECK & DECK ACCESSORIES COMPLIES WITH THE CONSTRUCTION DOCUMENTS	X	C	TBL 1.2	
b.	VERIFY THAT DECK MATERIALS' MILL CERTIFICATIONS COMPLY WITH THE CONSTRUCTION DOCUMENTS	X	C	TBL 1.2	
3.	INSPECTION TASKS PRIOR TO DECK WELDING				
a.	COLLECT WELDING PROCEDURE SPECIFICATION (WPS)	X	P	TBL 1.3	
b.	COLLECT MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	X	P	TBL 1.3	
c.	VERIFY MATERIAL TYPE AND GRADE	X	P	TBL 1.3	
d.	CHECK WELDING EQUIPMENT	X	P	TBL 1.3	
4.	INSPECTION TASKS DURING DECK WELDING				
a.	VERIFY WELDER QUALIFICATIONS	X	P	TBL 1.4	
b.	VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES	X	P	TBL 1.4	
c.	MONITOR ENVIRONMENTAL CONDITIONS	X	P	TBL 1.4	
d.	MONITOR PROPER IMPLEMENTATION OF WPS	X	P	TBL 1.4	
5.	INSPECTION TASKS AFTER WELDING				
a.	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP AND PERIMETER WELDS	X	C	TBL 1.5	
b.	VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	C	TBL 1.5	
c.	OBSERVE WELD REPAIR ACTIVITIES	X	C	TBL 1.5	
6.	INSPECTION TASKS PRIOR TO MECHANICAL FASTENING				
a.	VERIFY MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	X	P	TBL 1.6	
b.	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	X	P	TBL 1.6	
c.	VERIFY PROPER STORAGE OF MECHANICAL FASTENERS	X	P	TBL 1.6	
7.	INSPECTION TASKS DURING MECHANICAL FASTENING				
a.	OBSERVE FASTENER SPACING AND POSITION	X	P	TBL 1.7	
b.	VERIFY FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	X	P	TBL 1.7	
8.	INSPECTION TASKS AFTER MECHANICAL FASTENING				
a.	CHECK SPACING, TYPE AND INSTALLATION OF SUPPORT FASTENERS	X	C	TBL 1.8	
b.	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	X	C	TBL 1.8	
c.	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	X	C	TBL 1.8	
d.	VERIFY REPAIR ACTIVITIES	X	C	TBL 1.8	
9.	DOCUMENT ACCEPTANCE OR REJECTION OF DECK & DECK ACCESSORIES FOR ALL PHASES OF CONSTRUCTION	X	C	TBLS 1.1 THRU 1.8	

COLD-FORMED STEEL FRAMING

	INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
				STANDARD	NCBC
1.	FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES				
a.	VERIFY FABRICATOR QUALIFICATIONS	X	C		1704.2.5.1
b.	COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION	X	C		1704.5
2.	FOR TRUSSES CLEAR SPANNING 60 FEET OR MORE, VERIFY THAT BOTH TEMPORARY AND PERMANENT RESTRAINTS AND BRACES ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	X	P		1705.2.4

CONCRETE CONSTRUCTION

	INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
				STANDARD[A]	NCBC
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	X	P	ACI CH.20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2.	REINFORCING BAR WELDING:			AWS D1.4	
a.	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 AND COLLECT REPORTS	X	P	ACI 26.6.4	1704.5
b.	INSPECT SINGLE-PASS FILLET WELDS ≤ 5/16"	X	P	ACI 26.6.4	
c.	INSPECT ALL WELDS OTHER THAN SINGLE-PASS FILLET WELDS ≤ 5/16"	X	C	ACI 26.6.4	
3.	CONCRETE ANCHORS:				
a.	INSPECT ANCHORS CAST IN CONCRETE	X	P	ACI 17.8.2	
b.	INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS THAT RESIST SUSTAINED TENSION LOADS	X	C	ACI 17.8.2.4	
c.	INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH ORIENTATIONS DIFFERENT FROM ITEM 3.B	X	P	ACI 17.8.2	
d.	INSPECT MECHANICAL ANCHORS INSTALLED IN HARDENED CONCRETE	X	P	ACI 17.8.2	
4.	COLLECT MIX DESIGNS AND VERIFY THE CORRECT MIX USED DURING INSTALLATION	X	P	ACI CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	C	ASTM C172, ASTM C31, ACI 26.4, 26.12	1908.10
6.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	C	ACI 26.5	1908.6, 1908.7, 1908.8
7.	COLLECT REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE WHEN PRECONSTRUCTION TESTS ARE REQUIRED BY NCBC SECTION 1908.4	X	C		1704.5, 1908.5
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	X	P	ACI 26.5.3-26.5.5	1908.9
9.	INSPECTIONS FOR PRESTRESSED CONCRETE				
a.	OBSERVE APPLICATION OF PRESTRESSING FORCE	☐	C	ACI 26.10	
b.	INSPECT GROUTING OF BONDED PRESTRESSING TENDONS	☐	C	ACI 26.10	
10.	VERIFY CONCRETE STRENGTH PRIOR TO STRESSING OF PT TENDONS AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM PT & MILD BEAMS AND STRUCTURAL SLABS	☐	P	ACI 26.11.2	
11.	INSPECT ERECTION OF PRECAST MEMBERS	X	P	ACI 26.8	
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	X	P	ACI 26.11.1.2(B)	
13.	COLLECT MILL TEST REPORTS FOR ASTM A615 REBAR USED BY SFRS SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS OR COUPLING BEAMS	X	C	ACI 20.2.2.5	1704.5

A. REFERENCES TO "ACI" IN THIS TABLE ARE TO THE ACI 318-14.

MASONRY - LEVEL C

	INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
				TMS 402[A]	TMS 602[A]
1.	TEST & VERIFY F'M & F'AAC PRIOR TO CONSTRUCTION & FOR EVERY 5,000 SQUARE FEET DURING CONSTRUCTION	X	C	TBL 3.1.3	ART. 1.5
2.	TEST & VERIFY PROPORTIONS OF MATERIALS IN PREMIXED / PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING, AS DELIVERED TO SITE	X	C	TBL 3.1.3	
3.	TEST & VERIFY SLUMP FLOW & VISUAL STABILITY INDEX AS DELIVERED TO SITE FOR SELF-CONSOLIDATING GROUT	X	C	TBL 3.1.3	ART. 1.5B.1.b.3
4.	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	X	P	TBL 3.1.3	ART. 1.5
5.	VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a.	PROPORTIONS OF SITE-MIXED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	X	P		ART. 2.1, 2.6A, 2.6B, 2.6C, 2.4G.1.b
b.	GRADE, TYPE, & SIZE OF REINFORCEMENT & ANCHOR BOLTS, & PRESTRESSING TENDONS & ANCHORAGE	X	P	SEC 6.1	ART. 2.4, 3.4
c.	PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	X	P		ART. 3.3B
d.	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	X	C	SEC 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2E, 3.4, 3.6A
e.	GROUT SPACE IS CLEAN, AND CLEANOUTS PROVIDED WHEN REQUIRED	X	P		ART. 3.2D, 3.2F
f.	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	☐	C		ART. 3.5, 3.6C
g.	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	X	P		ART. 3.3F
h.	TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	X	C	SEC 1.2.1(E), 6.1.4.3, 6.2.1	
i.	WELDING OF REINFORCEMENT	X	C	SEC 8.1.6.7.2, 9.3.3.4(C), 11.3.3.4(B)	
j.	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE < 40ºF) OR HOT WEATHER (TEMPERATURE > 90ºF)	X	P		ART. 1.8C, 1.8D
k.	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	☐	C		ART. 3.6B
l.	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	☐	C		ART. 3.3B.9, 3.3F.1.b
m.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	☐	C		ART. 2.1C.1
6.	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND OR PRISMS	X	C		ART. 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4

A. REFERENCES TO "TMS402" IN THIS TABLE ARE TO THE TMS402/ACI530/ASCE5-13. REFERENCES TO "TMS602" ARE TO TMS602/ACI530.1/ASCE6-13.

SOILS

	INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
				STANDARD	NCBC
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	X	P		1705.6
2.	VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND HAVE REACHED THE CORRECT SOIL MATERIAL	X	P		1705.6
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	X	P		1705.6
4.	VERIFY THAT MATERIALS USED, DENSITIES, LIFT THICKNESS AND PROCEDURES USED DURING PLACEMENT AND COMPACTION OF COMPACTED FILL ARE IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS	X	C		1705.6
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, VERIFY THAT THE SUBGRADE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS	X	P		1705.6

SPRAYED FIRE-RESISTANT MATERIALS[A]

	INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
				STANDARD	NCBC
1.	PRIOR TO THE APPLICATION OF SPRAYED ON FIRE RESISTANT MATERIALS, VERIFY STRUCTURAL MEMBER SURFACES ARE PREPARED IN ACCORDANCE WITH THE APPROVED FIRE-RESISTANCE DESIGN AND THE WRITTEN INSTRUCTIONS OF THE APPROVED MANUFACTURER	X	P		1705.14.2
2.	DURING THE APPLICATION OF SPRAYED ON FIRE RESISTANT MATERIALS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a.	SUBSTRATE HAS MINIMUM AMBIENT TEMPERATURE BEFORE AND AFTER APPLICATION AS SPECIFIED BY THE FIRE RESISTANCE DESIGN AND APPROVED MANUFACTURER'S WRITTEN INSTRUCTIONS	X	P		1705.14.3
b.	WORK AREA PROPERLY VENTILATED DURING AND AFTER APPLICATION	X	P		1705.14.3
c.	THICKNESS OF SPRAYED ON MATERIAL CONFORMS WITH THE APPROVED FIRE RESISTANCE DESIGN AND NCBC MINIMUMS	X	P		1705.14.4, 1705.14.4.4, 1705.14.4.5, 1705.14.4.6, 1705.14.4.7, 1705.14.4.8, 1705.14.4.9
d.	THE DENSITY OF SPRAYED ON MATERIALS IS NOT LESS THAN THE REQUIREMENTS OF THE APPROVED FIRE-RESISTANCE DESIGN	X	P		1705.14.5
e.	THE COHESIVE / ADHESIVE BOND STRENGTH IS NOT LESS THAN 150 POUNDS PER SQUARE FOOT	X	P		1705.14.6

A. INSPECTIONS MUST BE PERFORMED AFTER THE ROUGH INSTALLATION OF ELECTRICAL, AUTOMATIC SPRINKLER, MECHANICAL AND PLUMBING SYSTEMS, AND SUSPENSION SYSTEMS FOR CEILINGS.

MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS

	INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
				STANDARD	NCBC
1.	PRIOR TO APPLICATION, VERIFY PREPARATION OF SUBSTRATE AND SUITABILITY OF PRIMERS, IF PRESENT, ARE IN ACCORDANCE WITH APPROVED FIRE RESISTANCE DESIGN, APPROVED MANUFACTURER'S WRITTEN INSTRUCTIONS, AND THE REQUIREMENTS OF AWCI 12-B	X	P	AWCI 12-B	1705.15
2.	OBSERVE THE APPLICATION OF FIRE-RESISTANT COATINGS ENSURING COMPLIANCE WITH APPROVED FIRE RESISTANCE DESIGN, APPROVED MANUFACTURER'S WRITTEN INSTRUCTIONS, AND THE REQUIREMENTS OF AWCI 12-B	X	P	AWCI 12-B	1705.15
3.	AFTER ADEQUATE DRYING BUT PRIOR TO THE APPLICATION OF ANY TOPCOAT, MEASURE THE FINAL MASTIC / INTUMESCENT MATERIAL THICKNESS ENSURING COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS AND APPROVED MATERIAL / INSTALLATION SUBMITTALS. MEASUREMENTS MUST CONSIDER THE THICKNESS OF PRIMERS OR OTHER EXISTING COATINGS ON THE SURFACE OF THE SUBSTRATE.	X	P	AWCI 12-B	1705.15

FIRE-RESISTANT PENETRATIONS AND JOINTS[A]

	INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
				STANDARD	NCBC
1.	INSPECT THROUGH-PENETRATION FIRESTOP SYSTEMS AT FIRE WALLS, FIRE BARRIERS, SMOKE BARRIERS AND FIRE PARTITION WALLS IN ACCORDANCE WITH ASTM E2174	X	P		1705.17.1, 714.3.1.2
2.	INSPECT PENETRATION FIRESTOP SYSTEMS AT PENETRATIONS THROUGH MEMBRANES THAT ARE PART OF A HORIZONTAL ASSEMBLY IN ACCORDANCE WITH ASTM E2174	X	P		1705.17.1, 714.4.2
3.	INSPECT FIRE-RESISTANT JOINT SYSTEMS IN ACCORDANCE WITH ASTM 2393	X	P		1705.17.2, 715.3, 715.4

A. THE INSPECTION OF FIRE-RESISTANT PENETRATIONS AND JOINTS APPLIES ONLY TO HIGH-RISE BUILDINGS OR BUILDINGS ASSIGNED TO RISK CATEGORY III OR IV.

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PROJECT INFORMATION

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SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING SEAL 044996 ENGINEER SCOTT M. FRANCIS NOT FOR CONSTRUCTION C-4360 PRELIMINARY STRUCTURAL

NORTH CAROLINA PROFESSIONAL SEAL 044996 ENGINEER SCOTT M. FRANCIS

05/02/2025

DKA JOB NUMBER
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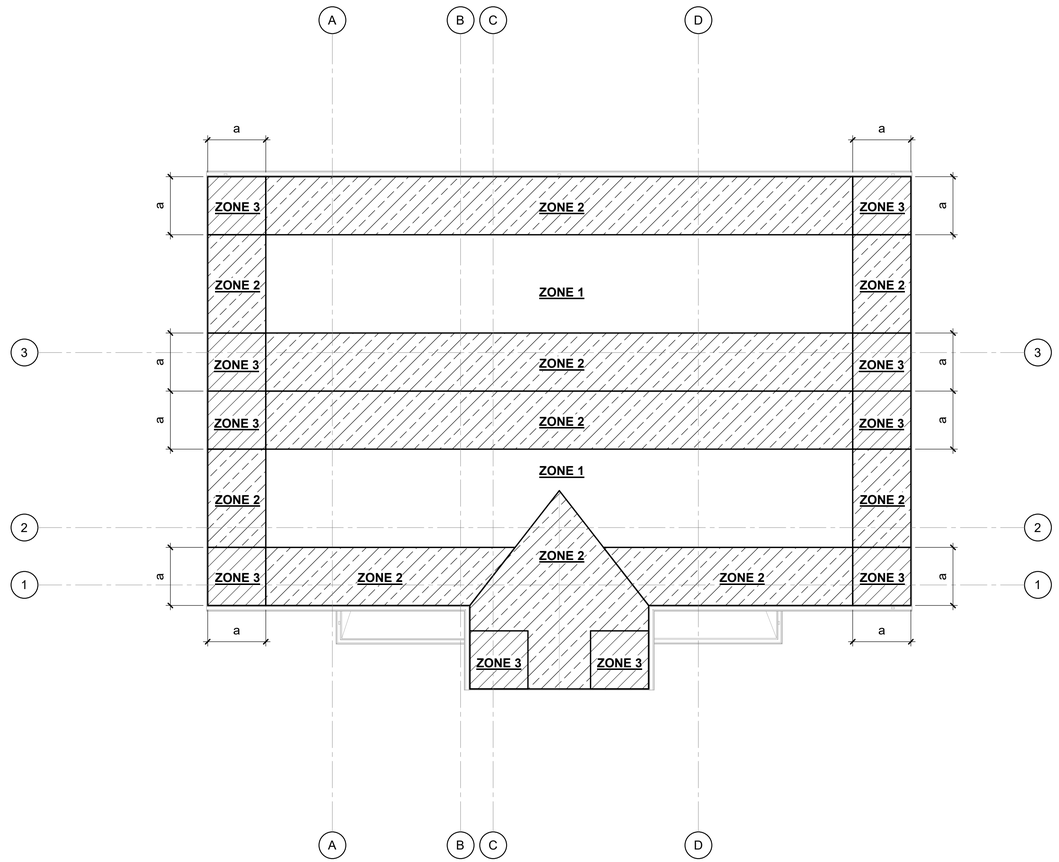
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SHEET TITLE
SPECIAL INSPECTIONS

S012

COMPONENT AND CLADDING PRESSURE (ULTIMATE) IN PSF						
ZONE	10 SF (+)	10 SF (-)	50 SF (+)	50 SF (-)	100 SF (+)	100 SF (-)
ZONE 1	36.1	-39.4	33.8	-34.8	32.8	-32.8
ZONE 2	36.1	-46.1	33.8	-41.5	32.8	-39.4
ZONE 3	36.1	-46.1	33.8	-41.5	32.8	-39.4

NOTES:
1. a = 5.5ft
2. OVERHANG LOADING IS 1.15xZONE



A1 WIND LOADING DIAGRAM
1/8" = 1'-0"

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SHEET TITLE
WIND LOADING DIAGRAM

S021

COLUMN FOOTING SCHEDULE

MARK	SIZE			REINFORCING		REMARKS
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP	
CF4	4' - 0"	4' - 0"	1'-0"	(5) #5 EW	-	-
CF5	5' - 0"	5' - 0"	1'-0"	(6) #5 EW	-	-

WALL FOOTING SCHEDULE

MARK	SIZE		REINFORCING		REMARKS
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE	
WF3	3' - 0"	1'-0"	(4) #4 BOT	#4 AT 24" OC BOT	-
WF4	4' - 0"	1'-2"	(5) #5 BOT	#5 AT 12" OC BOT	-

KEY NOTES

101 2'-0" SQUARE SUMP PIT FOR ELEVATOR, REFERENCE TYPICAL DETAIL, COORDINATE LOCATION WITH ELEVATOR MANUFACTURER.

102 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL (NCDOT AGGREGATE BASE COURSE) UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6-W2.1xW2.1 WELDED WIRE REINFORCING PLACED 1 1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.

103 CONCRETE EQUIPMENT PAD AT MECHANICAL UNITS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS.

104 8" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH #3 AT 12" ON CENTER EACH WAY PLACED AT MIDDEPTH OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.

105 SLOPE SLAB TO FLOOR DRAIN. ELEVATION OF FLOOR DRAIN IS -0 3/4" FROM FINISH FLOOR ELEVATION. REFERENCE PLUMBING DRAWINGS FOR EXACT LOCATION OF FLOOR DRAIN.

FOUNDATION AND SLAB PLAN NOTES

A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.

B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 280.00'. FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.

C. TOP OF ALL FOOTINGS MUST BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED.

D. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 6 INCHES BEYOND ENDS OF WALLS.

E. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND OUTSIDE FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.

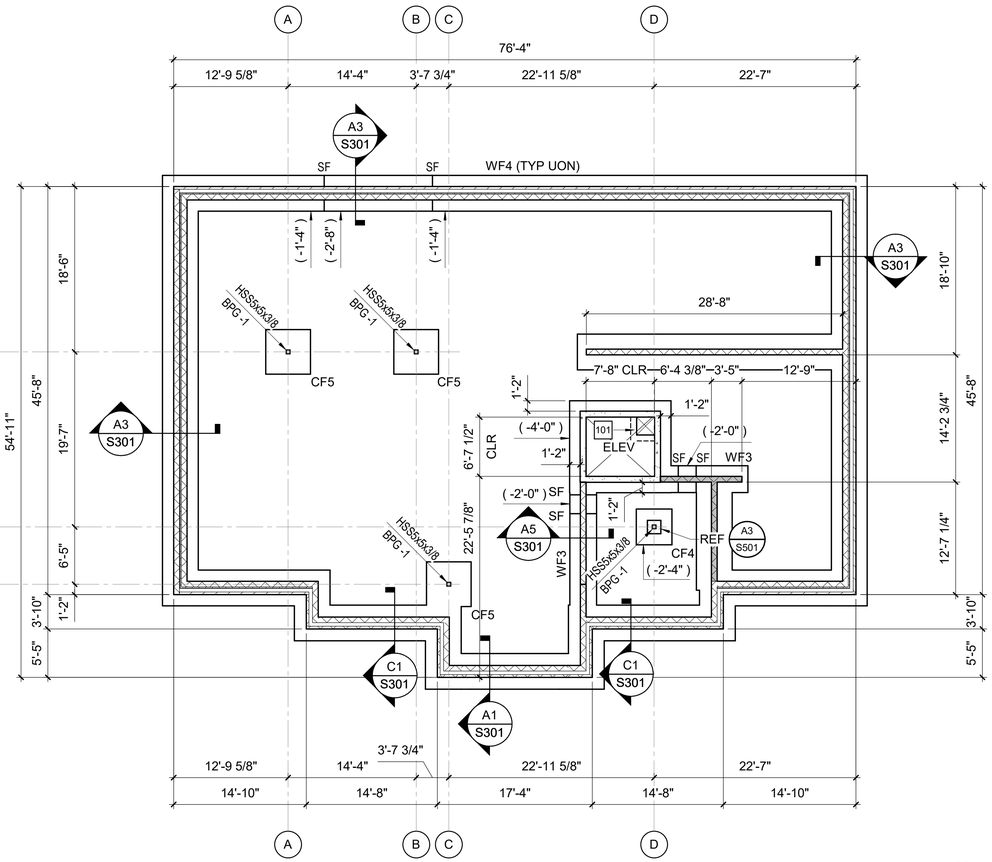
F. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LIMITS OF SLAB DEPRESSIONS AND OMITTED SLABS.

G. NOT ALL FLOOR SINKS AND DRAINS ARE SHOWN ON PLAN. REFERENCE PME DRAWINGS FOR LOCATIONS.

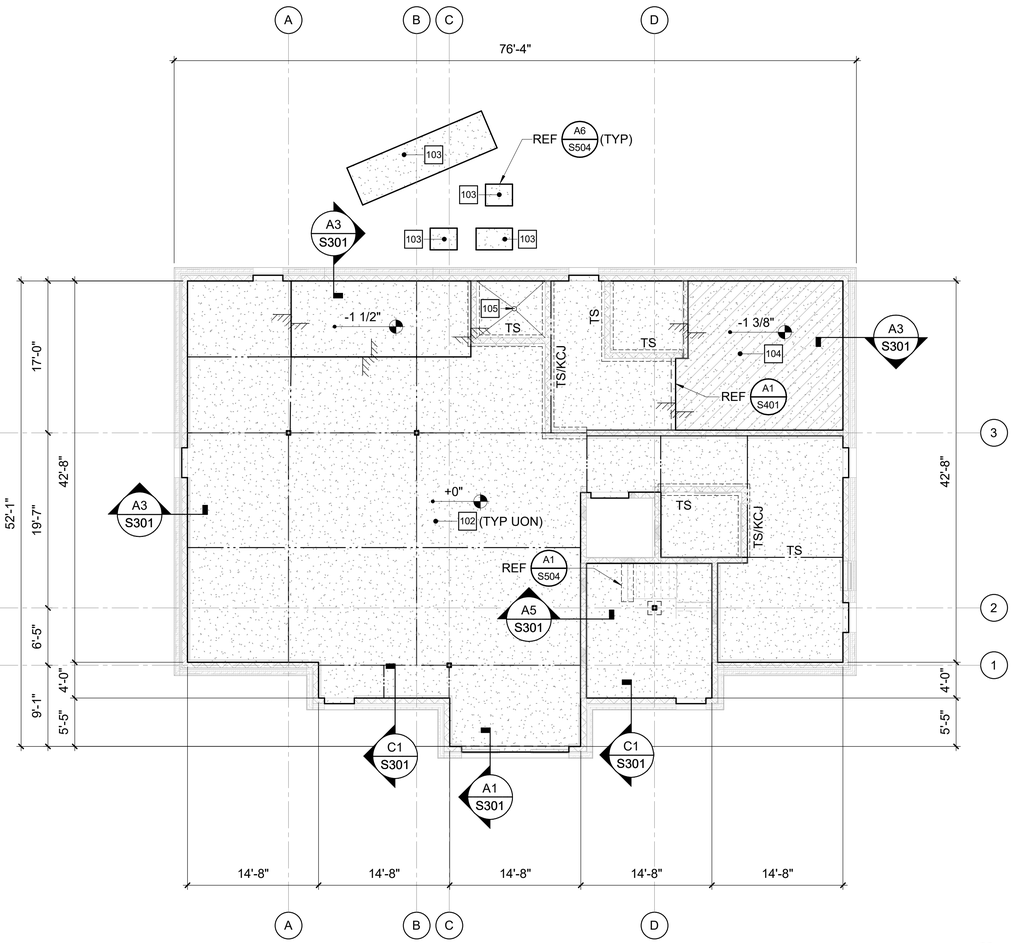
H. REFERENCE CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE SLABS AND PAVING.

I. SLAB-ON-GRADE JOINTS MUST BE SAWED JOINTS OR KEYED CONSTRUCTION JOINTS, UNLESS OTHERWISE NOTED. CONTRACTOR MUST COORDINATE ALL SLAB JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.

J. PLACE (1) #4 x 3'-0" IN MIDDEPTH OF SLAB AT RE-ENTRANT CORNERS WHERE A SLAB JOINT DOES NOT OCCUR.



A1 FOUNDATION PLAN
1/8" = 1'-0"



A5 SLAB PLAN - FIRST FLOOR
1/8" = 1'-0"

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SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING COMPANY SEAL C-4360 SCOTT M. FRANCIS STRUCTURAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 044196 ENGINEER SCOTT M. FRANCIS

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SHEET TITLE
FOUNDATION AND FIRST FLOOR SLAB PLAN

S111

KEY NOTES

203 3-1/4" LIGHTWEIGHT CONCRETE SLAB ON 2" X 20 GAGE COMPOSITE METAL DECK, (5-1/4" TOTAL) REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE REINFORCING LOCATED 1" CLEAR BELOW TOP OF SLAB.

FRAMING PLAN NOTES

A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

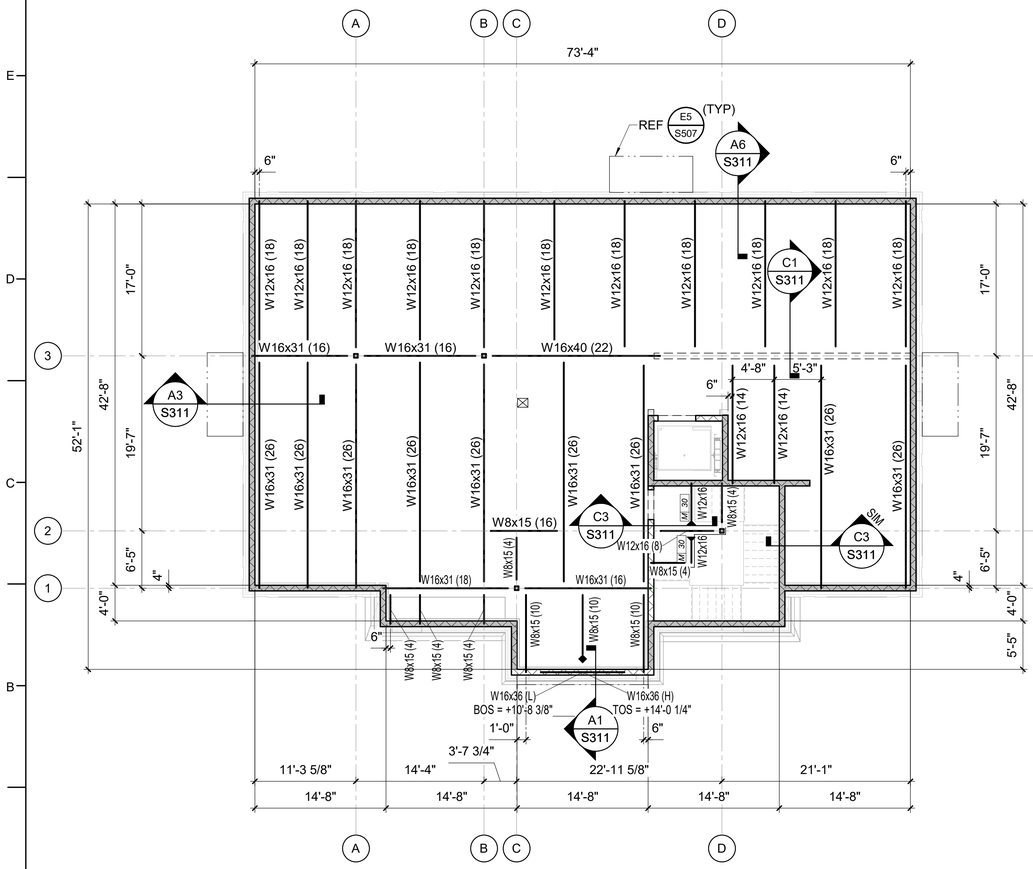
B. TOP OF FINISHED FLOOR ELEVATION MUST BE AS NOTED ON SLAB PLANS.

C. COMPOSITE STEEL BEAM FRAMING MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 10'-0" ON-CENTER).

D. STEEL ROOF FRAMING SUPPORTING 1 1/2" STEEL ROOF DECK MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 5'-0" ON-CENTER).

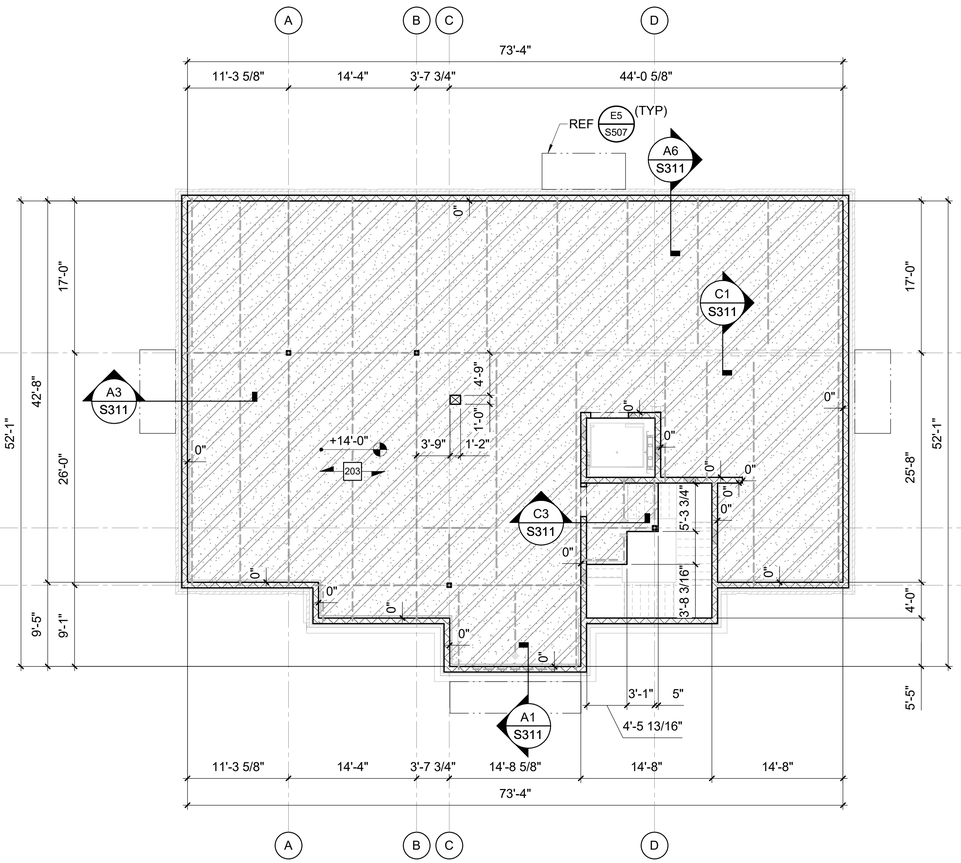
E. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED.

F. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.



A1 FRAMING PLAN - SECOND FLOOR

1/8" = 1'-0"



A5 SLAB PLAN - SECOND FLOOR

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEERING SEAL C-4360 PRINCIPAL STRUCTURAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 044996 ENGINEER SCOTT M. FRANCIS

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SHEET TITLE

SECOND FLOOR FRAMING AND SLAB PLAN

S121

KEY NOTES

201 600S162-43 OUTLOOKERS AT 24" OC.

203 3-1/4" LIGHTWEIGHT CONCRETE SLAB ON 2" X 20 GAGE COMPOSITE METAL DECK, (5-1/4" TOTAL) REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE REINFORCING LOCATED 1" CLEAR BELOW TOP OF SLAB.

303 1-1/2" x 20 GAGE ROOF DECK. REFERENCE STEEL DECK NOTES.

305 COORDINATE HOIST BEAM AND LIFELINE BEAM LOCATIONS WITH ELEVATOR MANUFACTURER.

FRAMING PLAN NOTES

A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

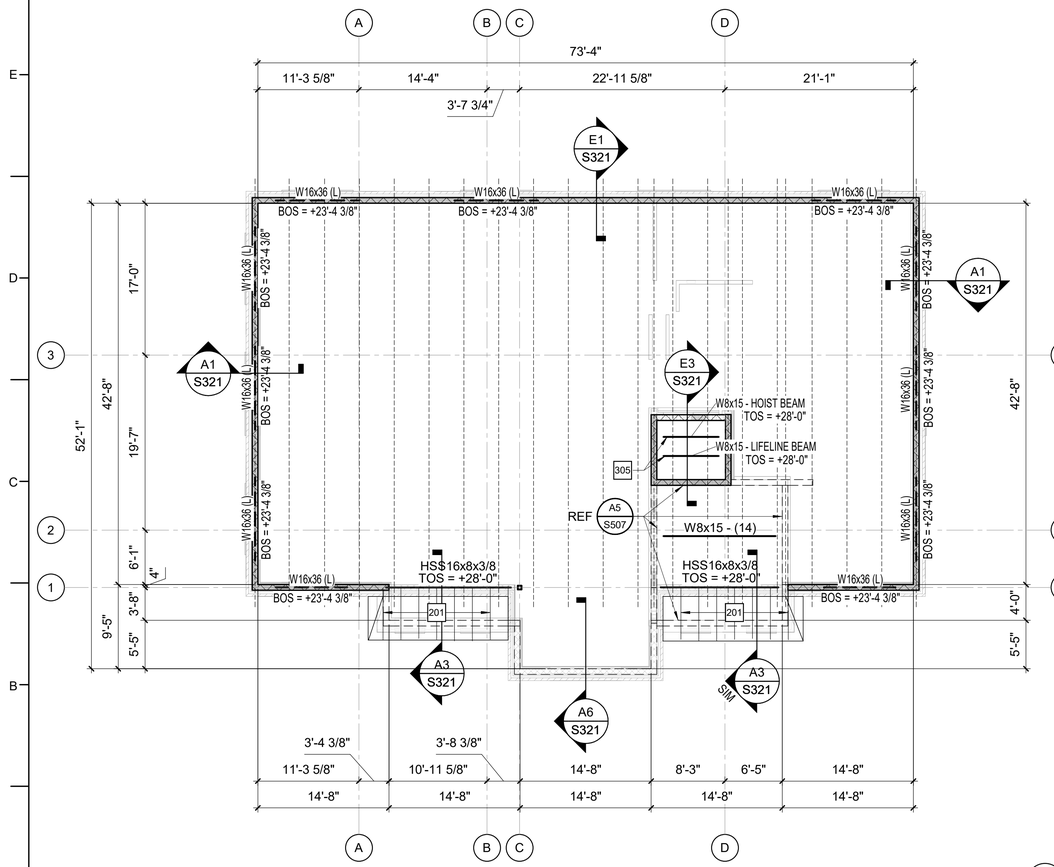
B. TOP OF FINISHED FLOOR ELEVATION MUST BE AS NOTED ON SLAB PLANS.

C. COMPOSITE STEEL BEAM FRAMING MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 10'-0" ON-CENTER).

D. STEEL ROOF FRAMING SUPPORTING 1 1/2" STEEL ROOF DECK MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 5'-0" ON-CENTER).

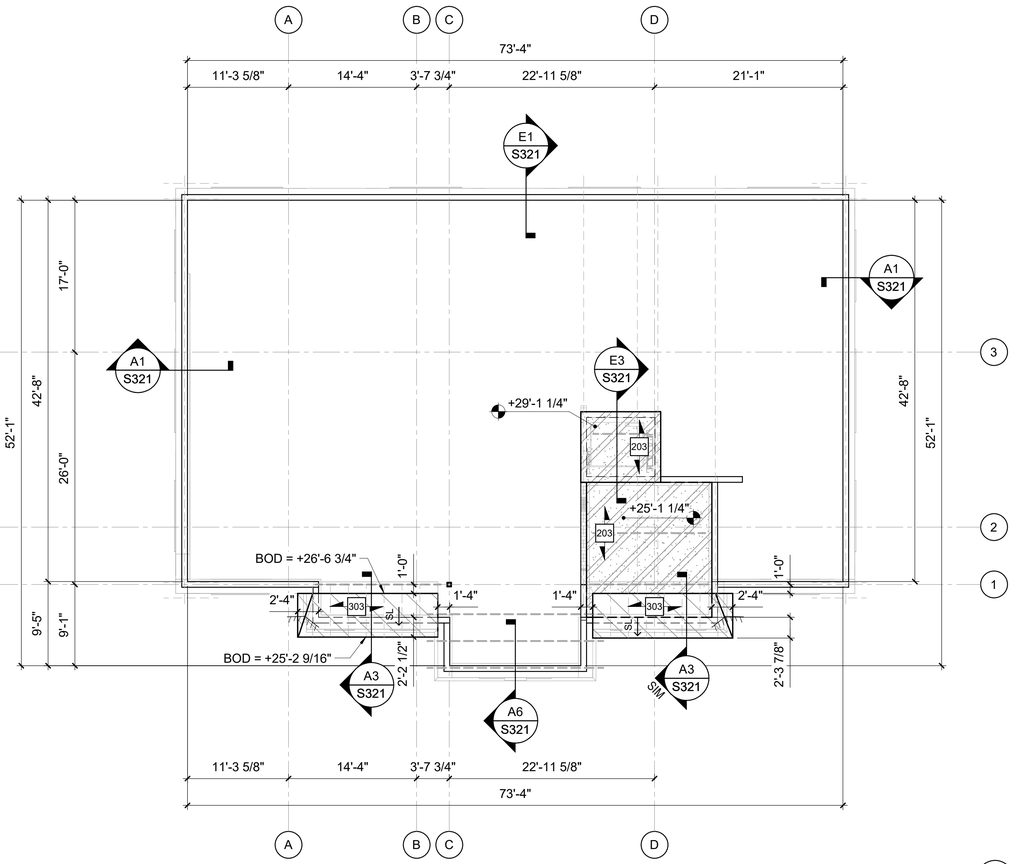
E. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED.

F. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.



A1 LOW ROOF FRAMING PLAN

1/8" = 1'-0"



A5 LOW ROOF SLAB AND DECK PLAN

1/8" = 1'-0"

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NORTH CAROLINA ENGINEERING CORPORATION C-4360 MECHANICAL ELECTRICAL PLUMBING STRUCTURAL ENGINEERING

NORTH CAROLINA PROFESSIONAL 044996 ENGINEER SCOTT M. FRANCIS

05/02/2025

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SHEET TITLE

LOW ROOF FRAMING AND DECK PLAN

S131

DRAG TRUSS FRAMING SCHEDULE

MARK	DESCRIPTION	WIND DEMAND (ASD)	SEISMIC DEMAND (ASD)
DT1	PREFAB COLD FORMED DRAG TRUSS	720 LB/FT	400 LB/FT
DT2	PREFAB COLD FORMED DRAG TRUSS	1,120 LB/FT	730 LB/FT
DT3	PREFAB COLD FORMED DRAG TRUSS	500 LB/FT	300 LB/FT

NOTE: DEMAND LOADS SHOWN INDICATE THE REQUIRED CAPACITY AT TRUSS BOTTOM CHORD ATTACHMENT TO CMU WALL

KEY NOTES

201 600S162-43 OUTLOOKERS AT 24" OC.

202 MECHANICAL EQUIPMENT TO BE SUPPORTED FROM BOTTOM CHORD OF COLD-FORMED METAL ROOF TRUSSES. REFERENCE MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF EQUIPMENT.

301 COLD-FORMED METAL BUILT UP FRAMING OVER PREFABRICATED METAL TRUSSES AND ROOF DECK.

303 1-1/2" x 20 GAGE ROOF DECK. REFERENCE STEEL DECK NOTES.

FRAMING PLAN NOTES

A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

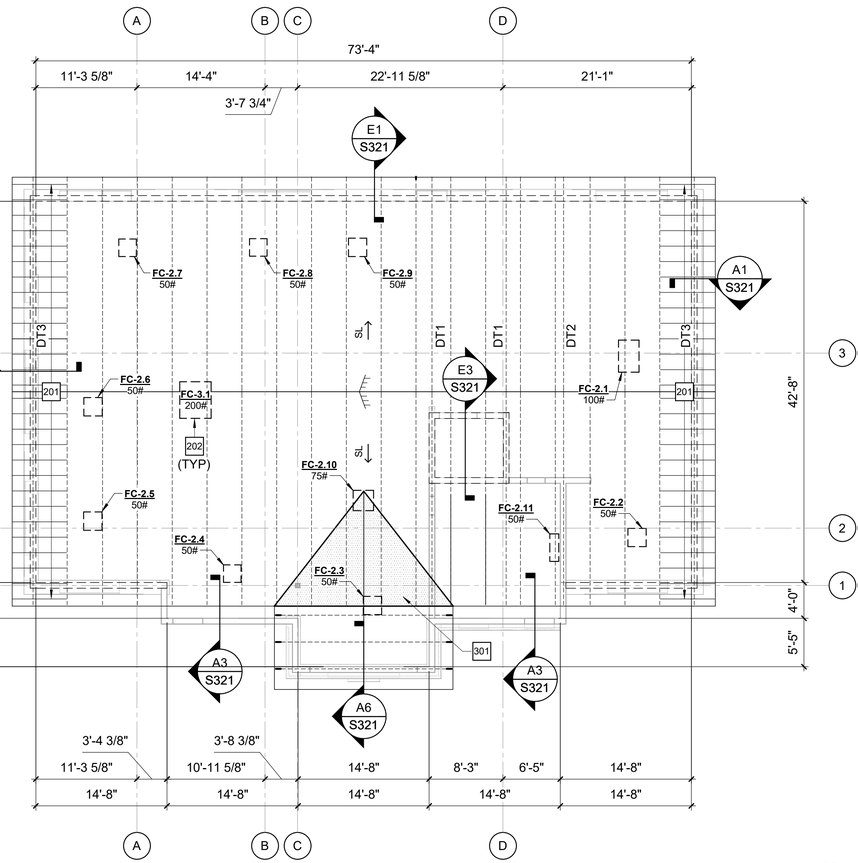
B. TOP OF FINISHED FLOOR ELEVATION MUST BE AS NOTED ON SLAB PLANS.

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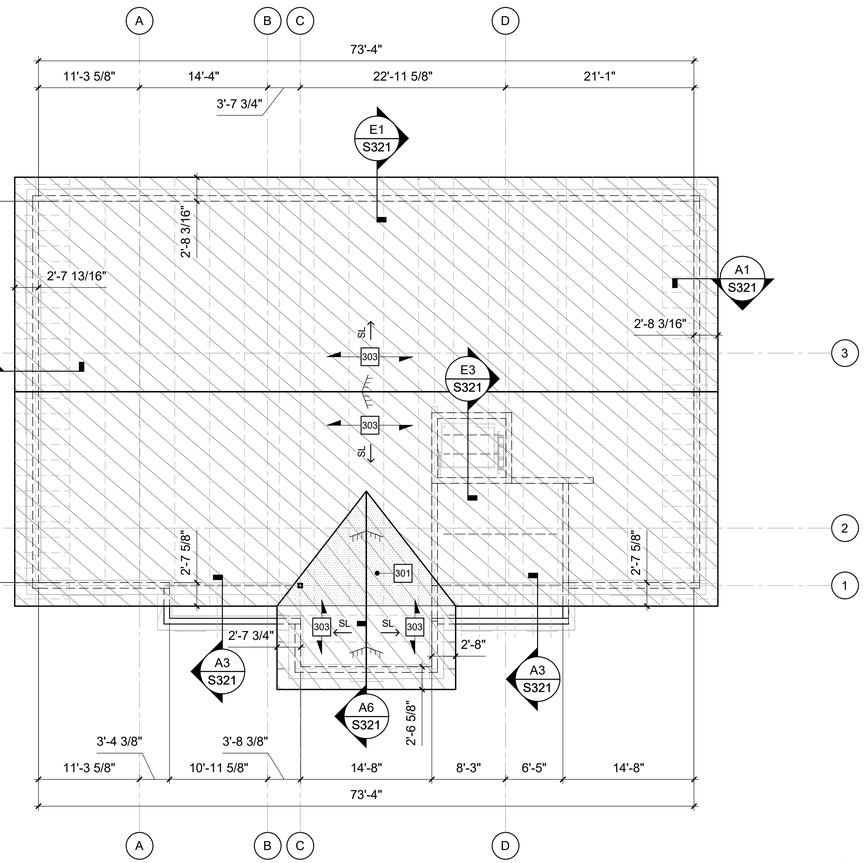
D. STEEL ROOF FRAMING SUPPORTING 1 1/2" STEEL ROOF DECK MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 5'-0" ON-CENTER).

E. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED.

F. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.



A1 ROOF FRAMING PLAN
1/8" = 1'-0"



A5 ROOF DECK PLAN
1/8" = 1'-0"

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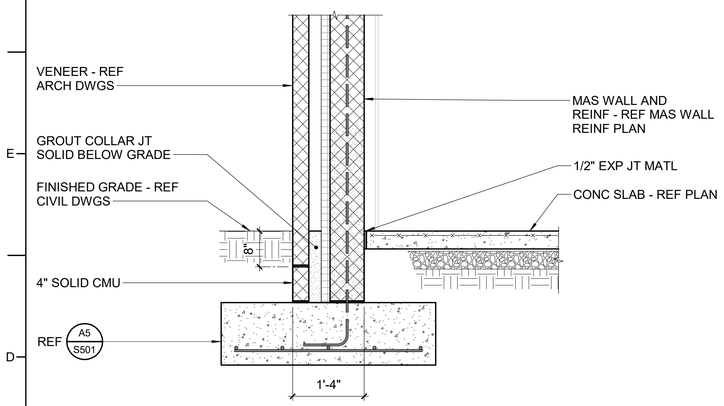
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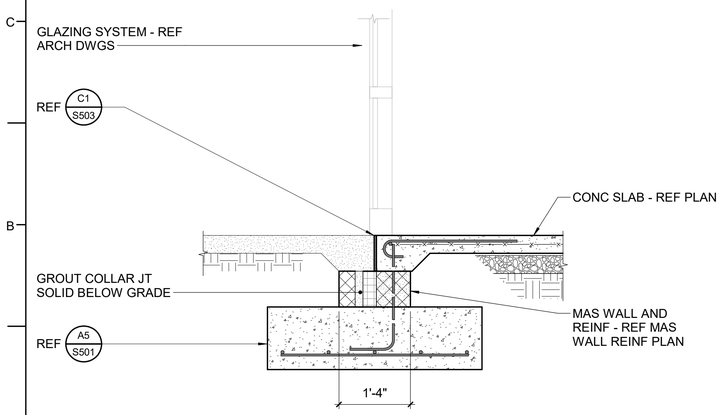
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SHEET TITLE
ROOF FRAMING AND DECK PLAN

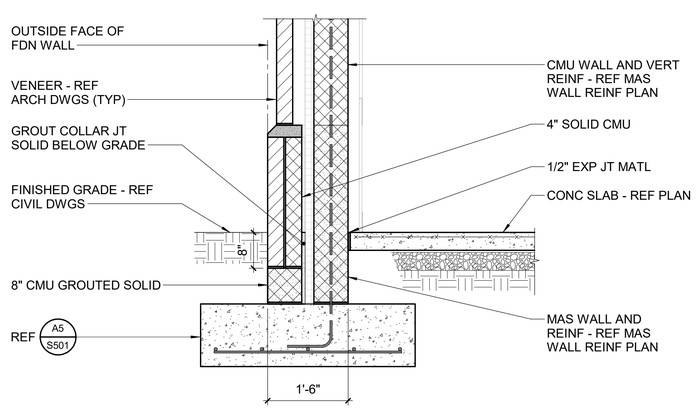
S141



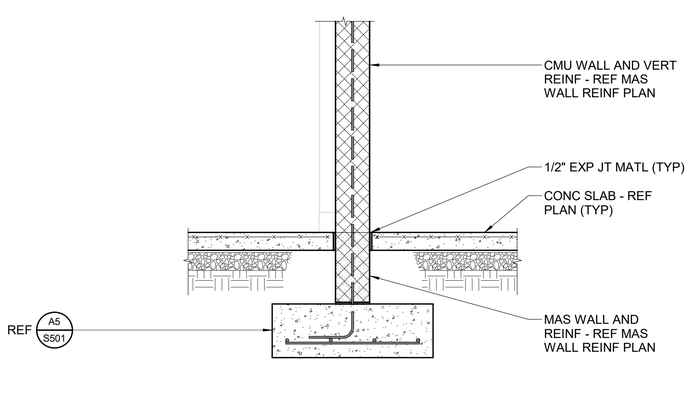
C1 SECTION
3/4" = 1'-0"



A1 SECTION
3/4" = 1'-0"



A3 SECTION
3/4" = 1'-0"



A5 SECTION
3/4" = 1'-0"

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING AND LAND SURVEYING CORPORATION C-4360 DAVIS KANE ARCHITECTS, P.A.

NORTH CAROLINA PROFESSIONAL SEAL 044996 ENGINEER SCOTT M. FRANCIS

05/02/2025

DKA JOB NUMBER
2418

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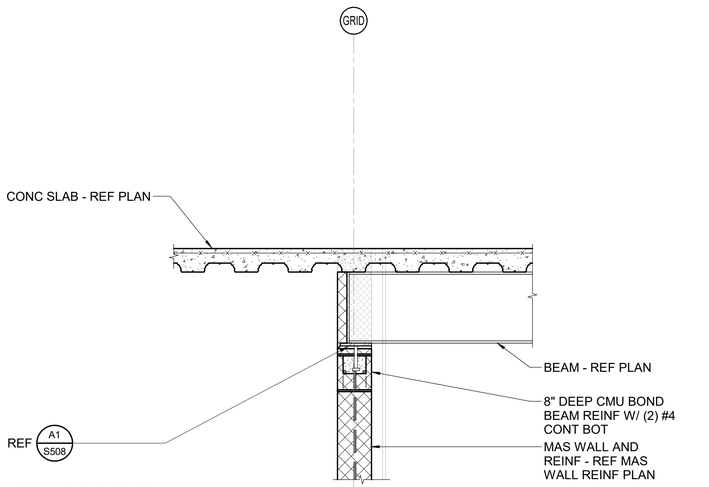
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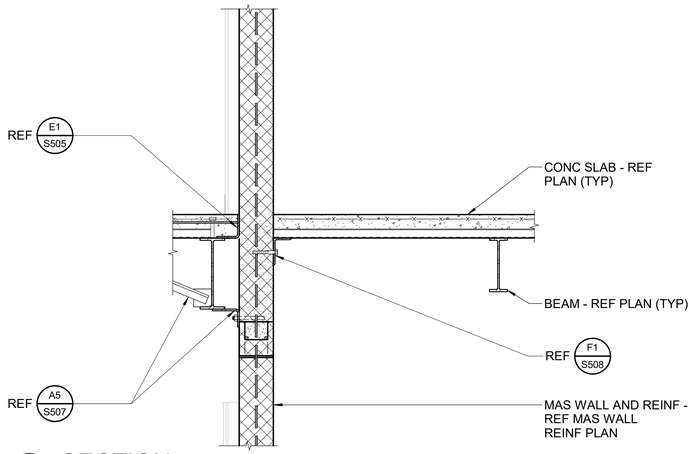
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SHEET TITLE
SECTIONS - FOUNDATION

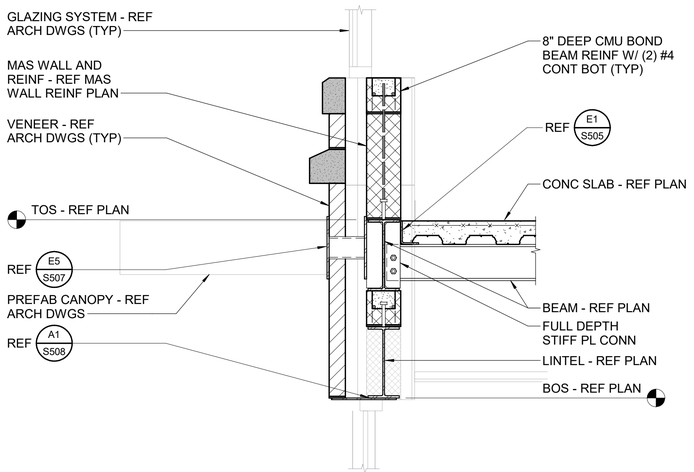
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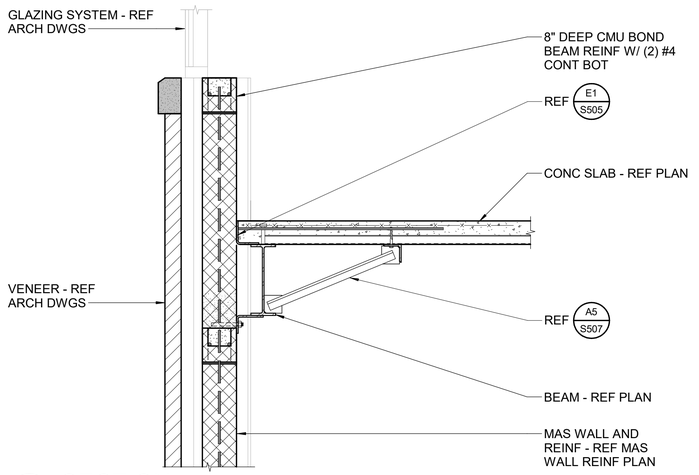
C1 SECTION
3/4" = 1'-0"



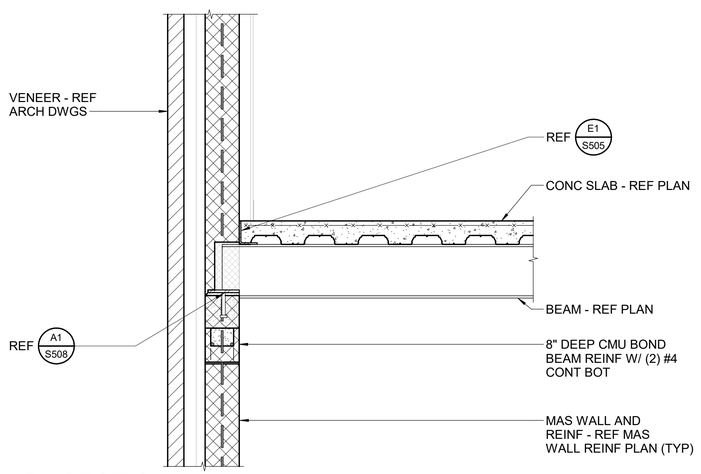
C3 SECTION
3/4" = 1'-0"



A1 SECTION
3/4" = 1'-0"



A3 SECTION
3/4" = 1'-0"



A6 SECTION
3/4" = 1'-0"

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NORTH CAROLINA ENGINEERING CORPORATION C-4360 PROFESSIONAL ENGINEERS AND LAND SURVEYORS STRUCTURAL ENGINEERS

NORTH CAROLINA PROFESSIONAL SEAL 044996 ENGINEER SCOTT M. FRANCIS

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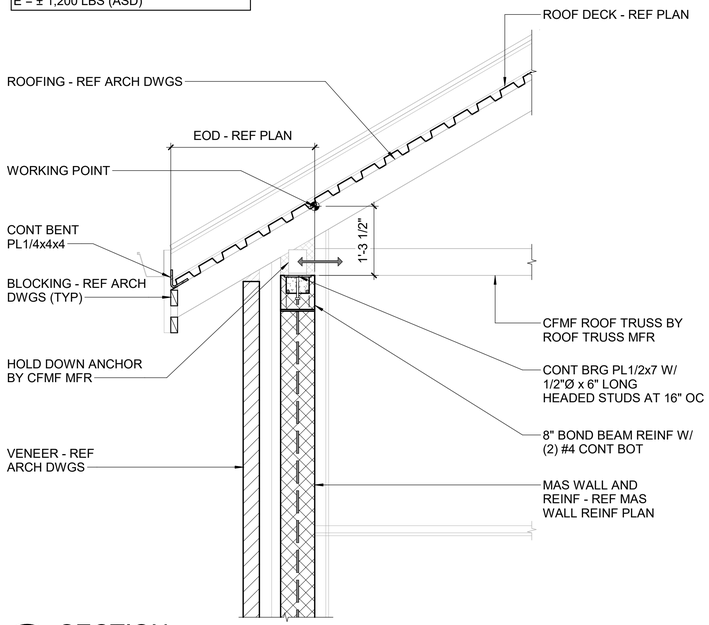
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SECTIONS - SECOND FLOOR

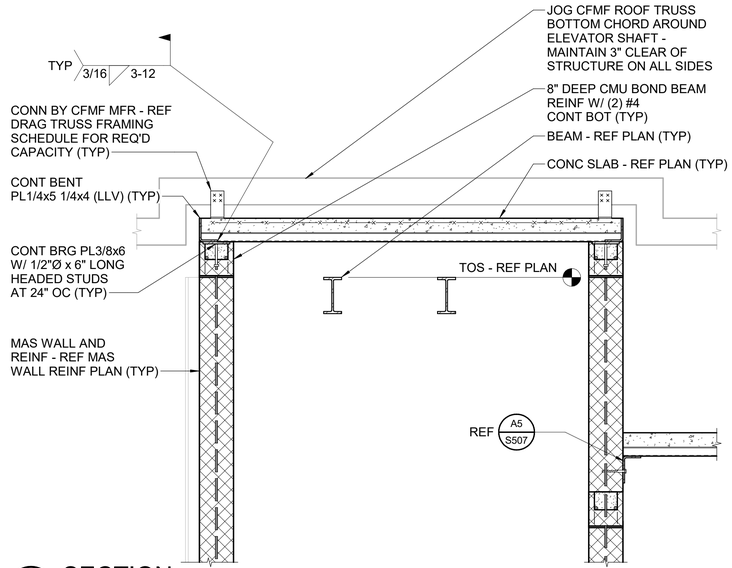
S311

TRUSS AND TRUSS CONNECTION MUST BE CAPABLE OF TRANSMITTING THE FOLLOWING LOADS FROM THE TOP OF THE CMU INTO THE ROOF DIAPHRAGM

AXIAL LOAD:
W = ± 2,000 LBS (ASD)
E = ± 1,200 LBS (ASD)

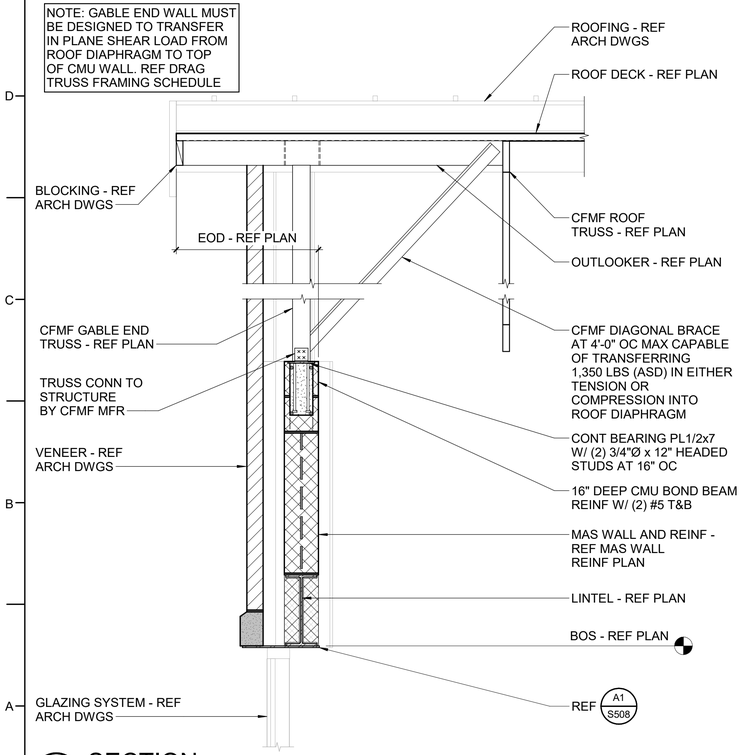


E1 SECTION
3/4" = 1'-0"

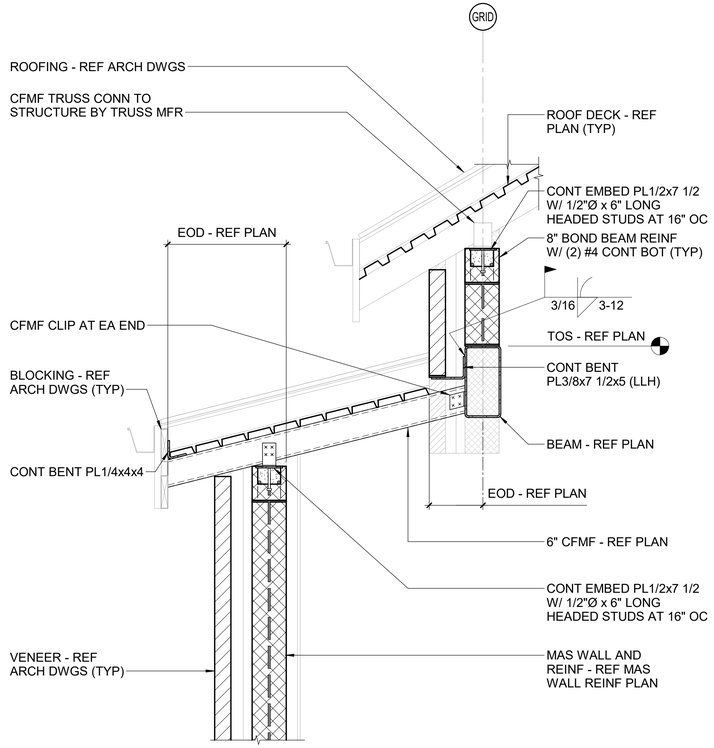


E3 SECTION
3/4" = 1'-0"

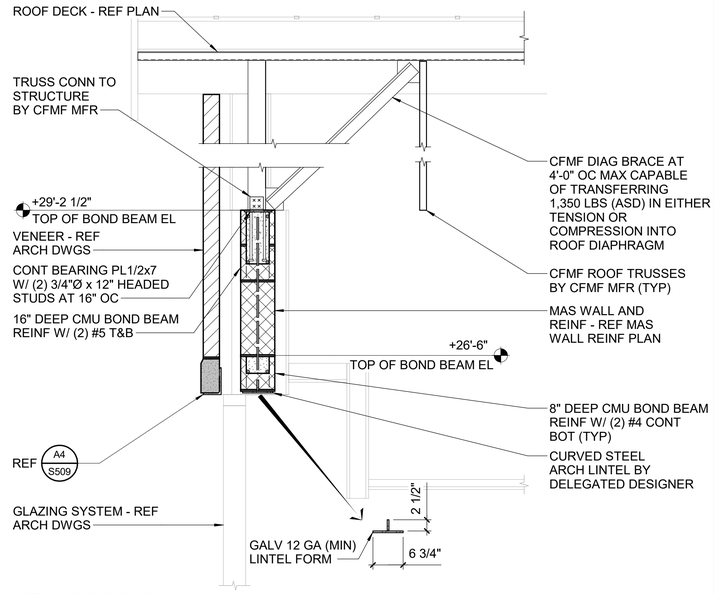
NOTE: GABLE END WALL MUST BE DESIGNED TO TRANSFER IN PLANE SHEAR LOAD FROM ROOF DIAPHRAGM TO TOP OF CMU WALL. REF DRAG TRUSS FRAMING SCHEDULE



A1 SECTION
3/4" = 1'-0"



A3 SECTION
3/4" = 1'-0"



A6 SECTION
3/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 044396 ENGINEER SCOTT M. FRANCIS

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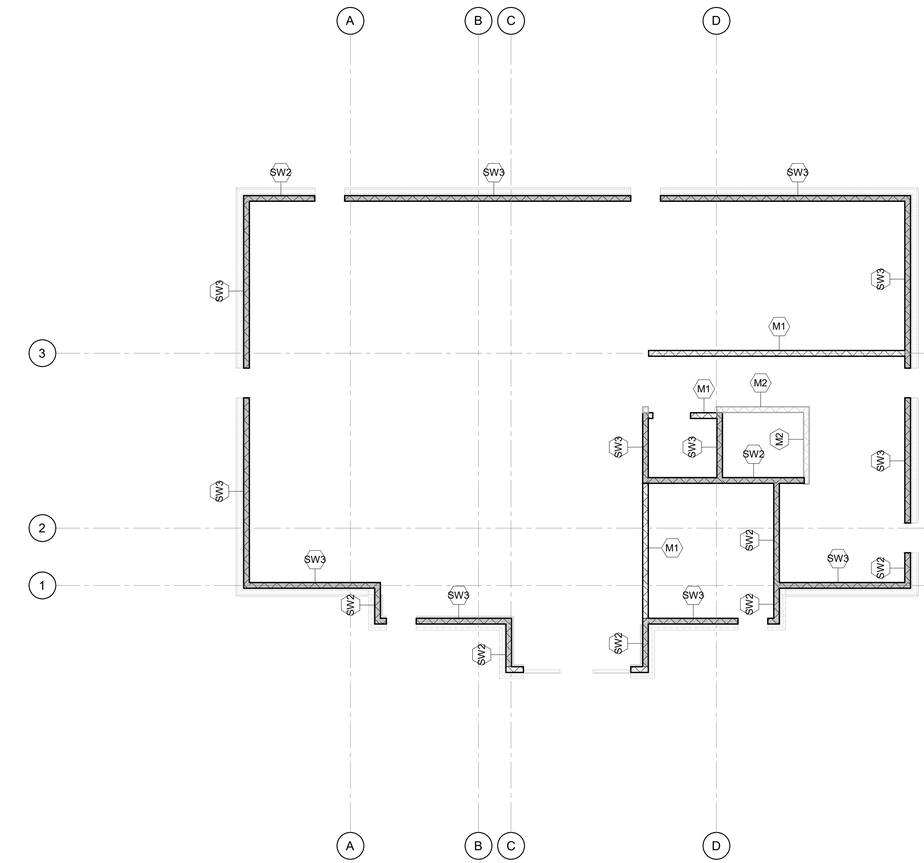
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SHEET TITLE
SECTIONS - ROOF

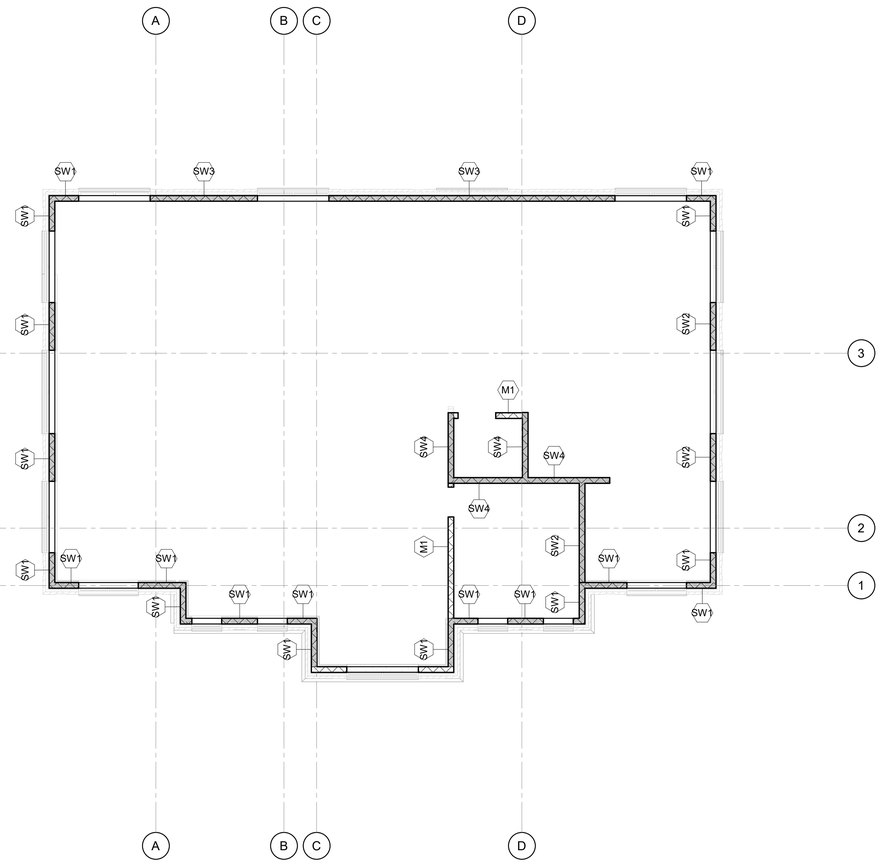
S321

MASONRY WALL REINFORCING SCHEDULE

MARK	WALL TYPE	REINFORCING	REMARKS
M1	8" CMU	#5 AT 24"OC	GROUT SOLID BELOW GRADE AND +4'-0" ABOVE EXTERIOR FINISHED GRADE
M2	8" CMU	#4 AT 40" OC	NON-LOAD BEARING, GROUT WALL SOLID FULL HEIGHT
SW1	8" CMU	#5 AT 8" OC VERT AND W1.7 AT 16" OC HORIZ	GROUT SOLID BELOW GRADE AND +4'-0" ABOVE EXTERIOR FINISHED GRADE
SW2	8" CMU	#5 AT 16" OC VERT AND W1.7 AT 16" OC HORIZ	GROUT SOLID BELOW GRADE AND +4'-0" ABOVE EXTERIOR FINISHED GRADE
SW3	8" CMU	#5 AT 24" OC VERT AND W1.7 AT 16" OC HORIZ	GROUT SOLID BELOW GRADE AND +4'-0" ABOVE EXTERIOR FINISHED GRADE
SW4	8" CMU	#6 AT 16" OC VERT AND W1.7 AT 16" OC HORIZ	GROUT SOLID BELOW GRADE AND +4'-0" ABOVE EXTERIOR FINISHED GRADE



A1 MASONRY WALL REINFORCING PLAN - FIRST TO SECOND FLOOR
1/8" = 1'-0"



A5 MASONRY WALL REINFORCING PLAN - SECOND FLOOR TO ROOF
1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 044396 ENGINEER SCOTT M. FRANCIS

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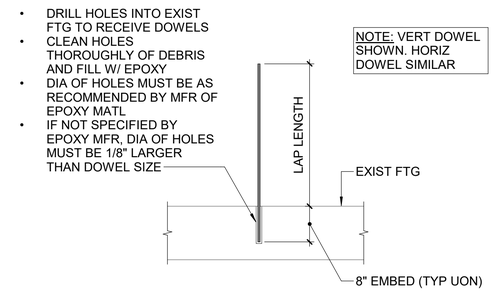
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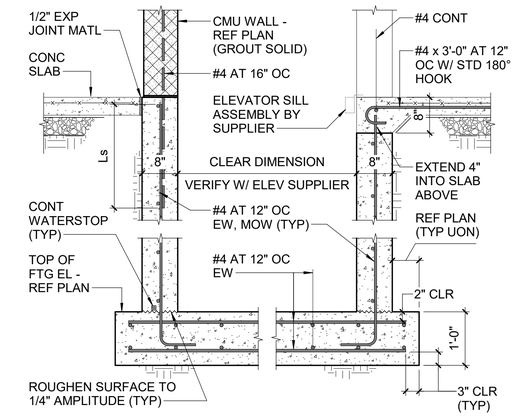
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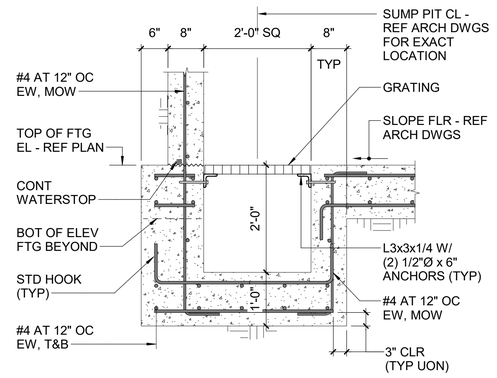
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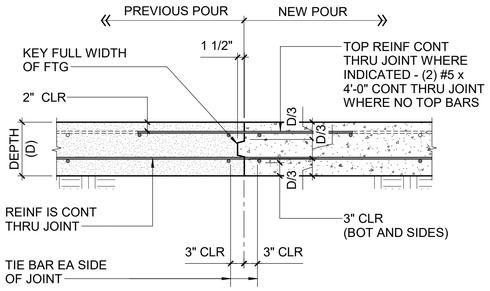
E1 TYPICAL EPOXY DOWEL DETAIL
NTS



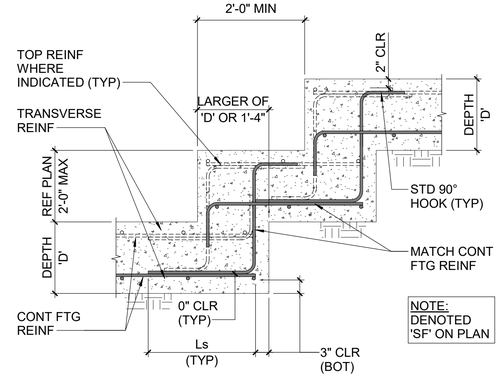
E3 TYPICAL ELEVATOR PIT DETAIL
NTS



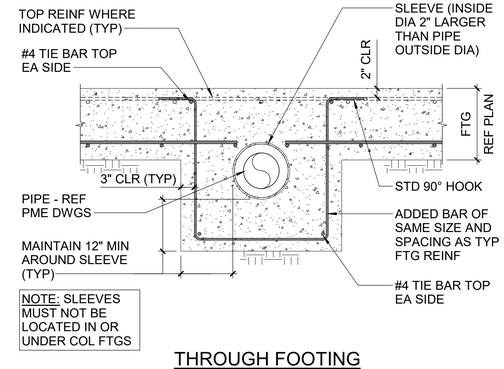
E5 ELEVATOR SUMP PIT DETAIL
NTS



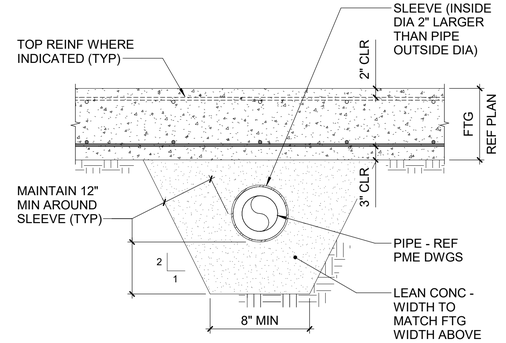
C1 TYPICAL WALL FOOTING CONSTRUCTION JOINT DETAIL
NTS



C3 TYPICAL STEPPED WALL FOOTING DETAIL
NTS

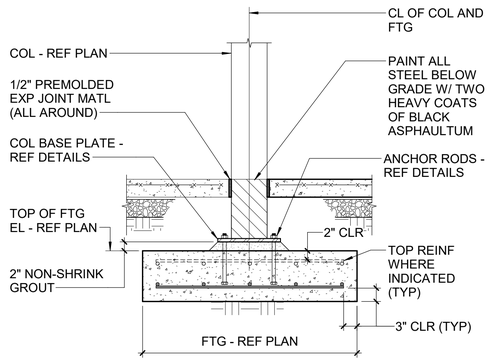


THROUGH FOOTING

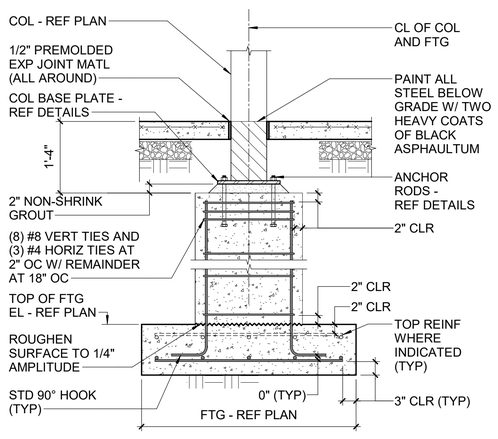


BELOW FOOTING

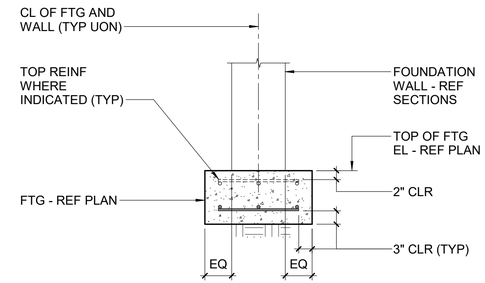
C5 TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS
NTS



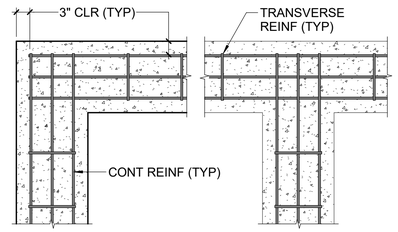
A1 TYPICAL COLUMN & FOOTING DETAIL
NTS



A3 TYPICAL COLUMN & FOOTING DETAIL
NTS



A5 TYPICAL WALL FOOTING DETAIL
NTS



A7 TYPICAL WALL FOOTING CORNER & INTERSECTION DETAILS
NTS

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
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ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING SEAL 044396 ENGINEER SCOTT M. FRANKLIN

09/02/2025

DKA JOB NUMBER
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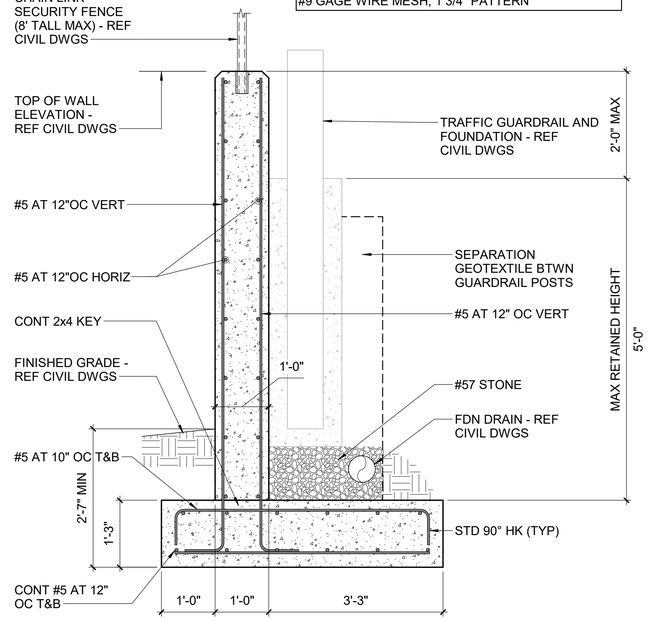
SHEET TITLE
TYPICAL FOUNDATION AND ELEVATOR DETAILS

S501

NOTE:

CHAIN LINK SECURITY FENCE ASSUMPTIONS:

4" DIAMETER STEEL TUBE POSTS AT 10'-0" OC (MAX)
#9 GAGE WIRE MESH, 1 3/4" PATTERN

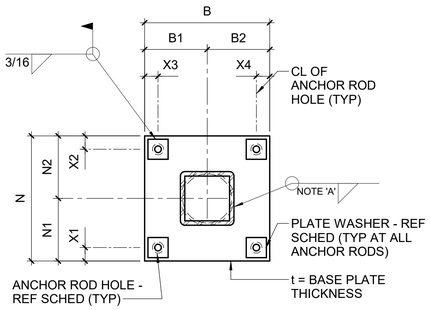


C1 TYPICAL SITE WALL DETAIL

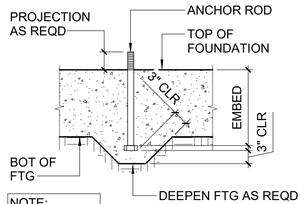
NTS

COLUMN BASE PLATE SCHEDULE - GRAVITY COLUMNS

MARK	BASE PLATE DIMENSIONS										ANCHOR RODS			REMARKS
	B	N	t	B1	B2	N1	N2	X1	X2	X3	X4	DIAMETER	QUANTITY	EMBED	
BPG-1	12"	12"	3/4"	6"	6"	6"	6"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	3/4"	4	9"	1/4" WELD



HSS



NOTE:
FTG REINF NOT SHOWN

ANCHOR ROD
SHALLOW FOUNDATIONS

ANCHOR ROD HOLES AND WASHER SCHEDULE

ANCHOR ROD	OVERSIZED HOLE WITH PLATE WASHER				STANDARD HOLE	
	BASE PLATE HOLE	WASHER SIZE	WASHER HOLE	WASHER THICKNESS	BASE PLATE HOLE	WASHER
3/4"Ø	1 5/16"Ø	2" SQ	13/16"Ø	1/4"	1 1/16"Ø	ASTM F844

NOTE:
A. PROVIDE MINIMUM SIZE WELD PER AISC TABLE J2.4 UNLESS OTHERWISE NOTED.

B. GENERAL CONTRACTOR'S OPTION TO USE STANDARD OR OVERSIZED HOLES IN GRAVITY COLUMN BASE PLATES. NO WELDING REQUIRED AT PLATE WASHERS USED WITH OVERSIZED HOLES.

A1 GRAVITY COLUMN BASE PLATE AND ANCHOR ROD DETAILS

NTS

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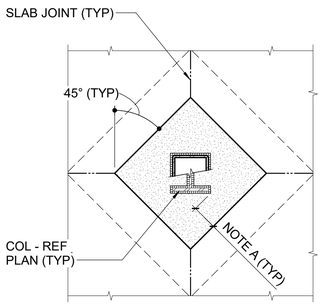
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SHEET TITLE

TYPICAL BASE PLATE AND SITE WALL DETAILS

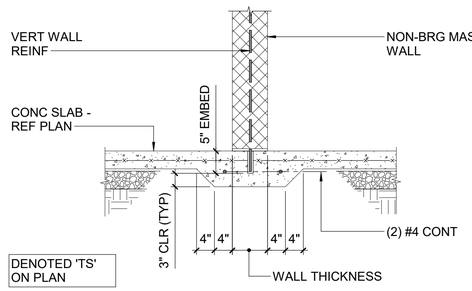
S502

NOTE A: 6" MIN, COORD W/ BASE PLATE SIZE, BRACED FRAME DIAGONALS, ETC.

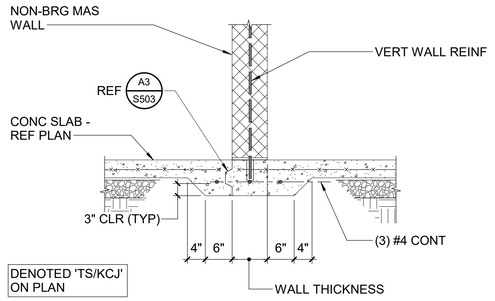


INTERIOR

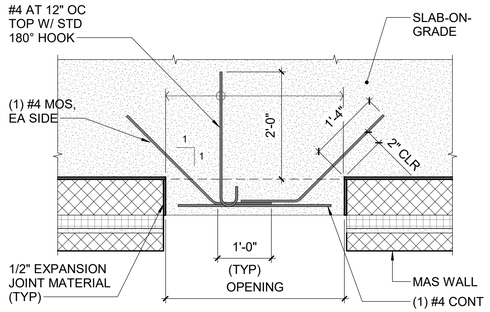
E1 TYPICAL COLUMN ISOLATION JOINT DETAIL
NTS



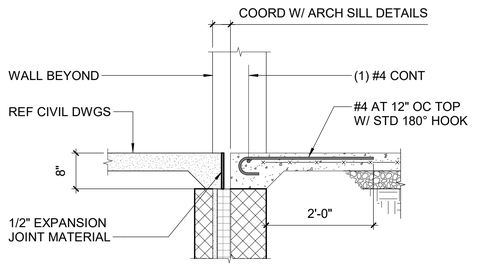
E2 TYPICAL THICKENED SLAB DETAIL
NTS



E4 TYPICAL THICKENED SLAB / KEYED CONSTRUCTION JOINT DETAIL
NTS

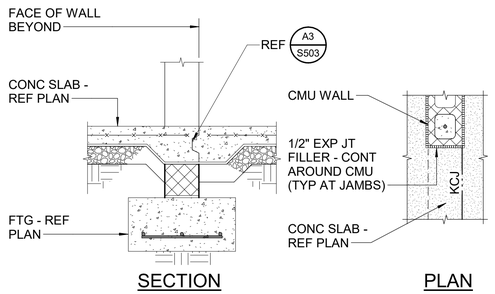


PLAN



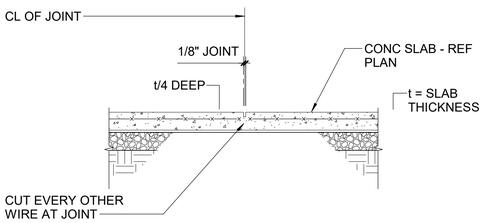
SECTION

C1 TYPICAL EXTERIOR DOORS / OPENINGS DETAIL
NTS



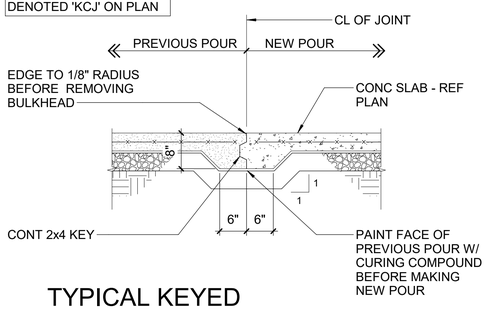
SECTION PLAN

C5 TYPICAL DETAIL AT INTERIOR DOOR OPENINGS
NTS

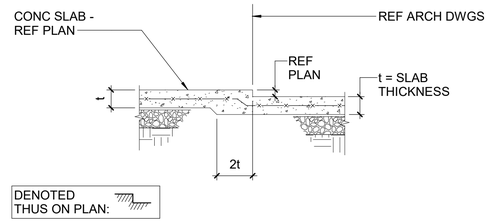


A1 TYPICAL SAWED JOINT DETAIL
NTS

REQUIRED AT CONTRACTOR COLD JOINTS AND LOCATIONS DENOTED 'KCJ' ON PLAN



A3 TYPICAL KEYED CONSTRUCTION JOINT DETAIL
NTS



A5 TYPICAL DEPRESSED SLAB DETAIL
NTS

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING CORPORATION C-4360 STRUCTURAL ENGINEERING

NORTH CAROLINA PROFESSIONAL SEAL 044996 ENGINEER SCOTT M. FRANCIS

05/02/2025

DKA JOB NUMBER
2418

REVISIONS

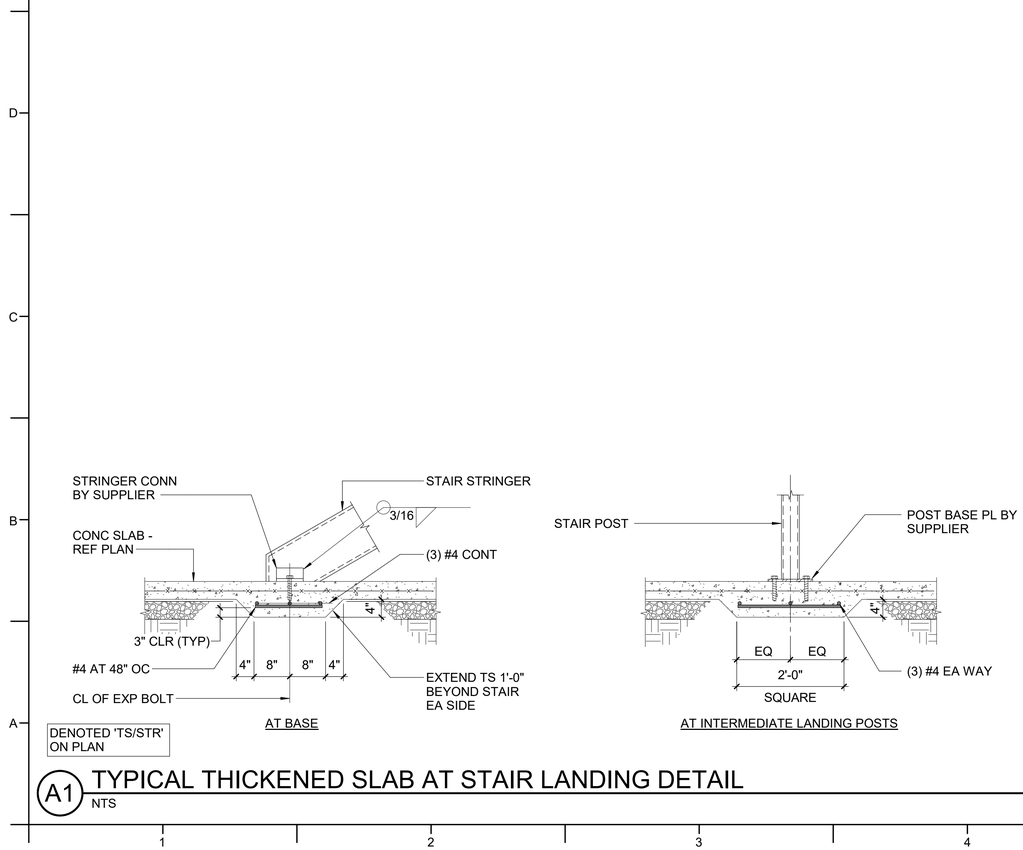
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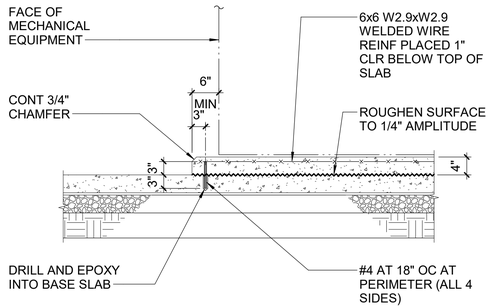
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SHEET TITLE
TYPICAL SLAB-ON-GRADE DETAILS

S503

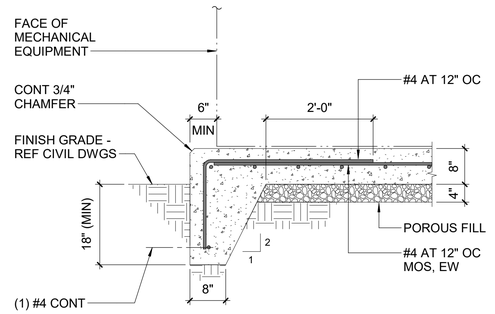


A1 TYPICAL THICKENED SLAB AT STAIR LANDING DETAIL
NTS



A4 TYPICAL HOUSEKEEPING PAD DETAIL
NTS

NOTES:
1. REF MECHANICAL/CIVIL DRAWINGS FOR DIMENSIONS AND LOCATION OF CONCRETE PAD.
2. COORDINATE ANY REQUIRED ANCHORAGE EMBEDS NEEDED FOR THE EQUIPMENT PLACED ON PAD.



A6 TYPICAL EXTERIOR EQUIPMENT PAD DETAIL
NTS

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING CORPORATION C-4360 PROVIDING STRUCTURAL ENGINEERING SOLUTIONS

NORTH CAROLINA PROFESSIONAL SEAL 044496 ENGINEER SCOTT M. FRANCIS

05/02/2025

DKA JOB NUMBER
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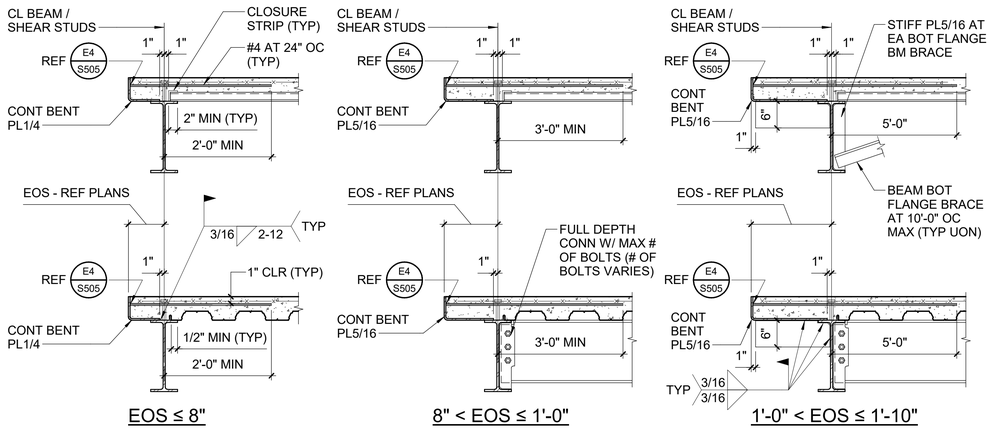
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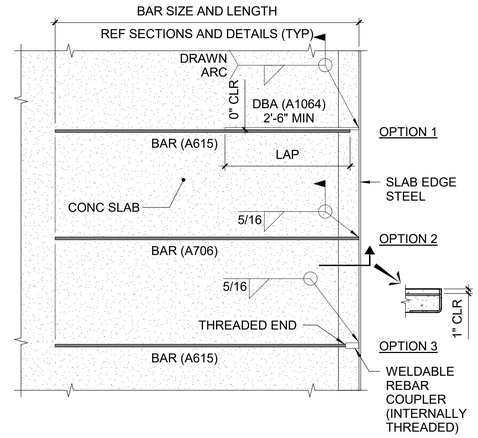
SHEET TITLE
TYPICAL SLAB-ON-GRADE DETAILS

S504



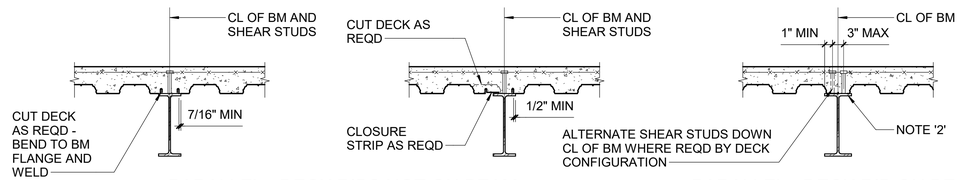
EOS ≤ 8" | 8" < EOS ≤ 1'-0" | 1'-0" < EOS ≤ 1'-10"

E1 TYPICAL EDGE OF COMPOSITE SLAB DETAILS
NTS

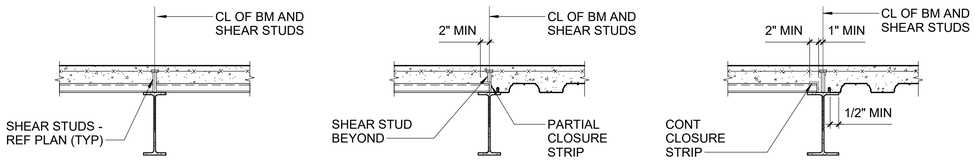


E4 TYPICAL REINFORCING TO SLAB EDGE STEEL ATTACHMENT DETAILS
NTS

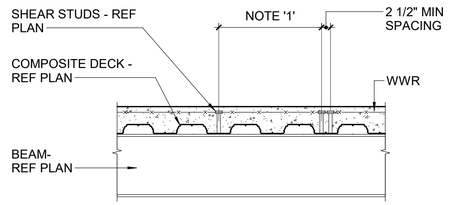
COMPOSITE SLAB DETAIL NOTES:
1. SPACE STUDS EQUALLY ALONG BEAM FLANGE IN DECK RIBS. WHERE THE NUMBER OF STUDS EXCEEDS THE NUMBER OF DECK RIBS, PLACE (2) STUDS IN DECK RIBS STARTING AT BEAM ENDS AND WORKING TOWARDS THE MIDDLE. AN EQUAL NUMBER OF STUDS MUST BE PLACED ON EACH HALF OF THE BEAM.
2. FOR BMS W/ A FLANGE THICKNESS OF 1/4" OR LESS, CUT DECK RIB AS REQD AND WELD STUDS DIRECTLY ON BM CL.



PARALLEL - DECK RIBS NOT ON BEAM | PARALLEL - DECK RIB ON BEAM

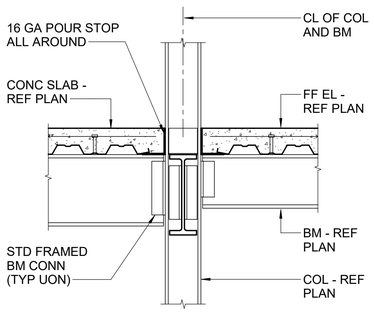


PERPENDICULAR | FLANGE < 6" | FLANGE ≥ 6"

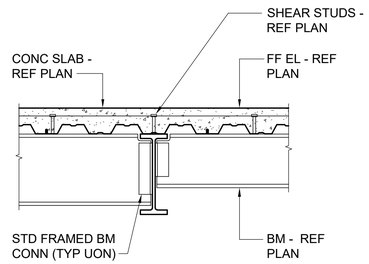


TYPICAL COMPOSITE BEAM PROFILE

C1 TYPICAL COMPOSITE SLAB DETAILS
NTS



A1 TYPICAL COLUMN / BEAM CONNECTION DETAIL
NTS



A2 TYPICAL BEAM / BEAM CONNECTION DETAIL
NTS

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING CORP C-4360 PROFESSIONAL STRUCTURAL ENGINEERS

NORTH CAROLINA PROFESSIONAL SEAL 044996 ENGINEER SCOTT M. FRANCIS
05/02/2025

DKA JOB NUMBER
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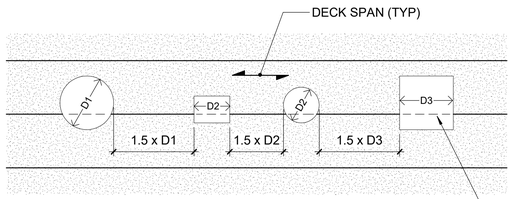
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SHEET TITLE
TYPICAL COMPOSITE SLAB DETAILS

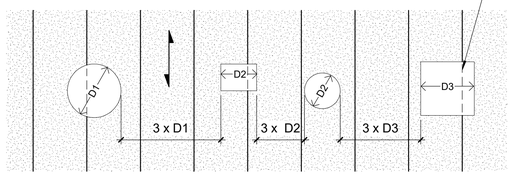
S505

NOTES:

1. SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND SIZE OF FLOOR PENETRATIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL FRAMING PLANS.
2. PENETRATIONS, LESS THAN OR EQUAL TO 6" IN ANY DIMENSION MUST BE PERMITTED IN THE ELEVATED SLAB ON METAL DECK WITHOUT REINFORCING, PROVIDED THE SPACING BETWEEN PENETRATIONS DOES NOT EXCEED THE FOLLOWING, AS DEPICTED BELOW:
   A. WHERE DECK SPAN IS PARALLEL TO THE GROUP OF PENETRATIONS: CLEAR SPACING MUST NOT BE LESS THAN 1.5 TIMES THE WIDTH / DIAMETER OF THE LARGER ADJACENT PENETRATION OR 4", WHICHEVER IS GREATER.
   B. WHERE DECK SPAN IS PERPENDICULAR TO THE GROUP OF PENETRATIONS: CLEAR SPACING MUST NOT BE LESS THAN 3 TIMES THE WIDTH OF THE LARGER ADJACENT PENETRATION, OR 8", WHICHEVER IS GREATER.
3. IF THE SPACING REQUIREMENTS BELOW CANNOT BE MET, THE CONTRACTOR MUST BE PERMITTED TO REINFORE THE SLAB PER THE TYPICAL FLOOR SLAB REINFORCING DETAIL AT OPENINGS LARGER THAN 6".
4. BLOCKOUTS OR DRILLED CORES ARE PERMITTED, HOWEVER, FLOOR DECK MUST REMAIN CONTINUOUS AND NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND HAS REACHED 75% OF IT'S SPECIFIED DESIGN STRENGTH.



DECK SPAN PARALLEL TO OPENING GROUP



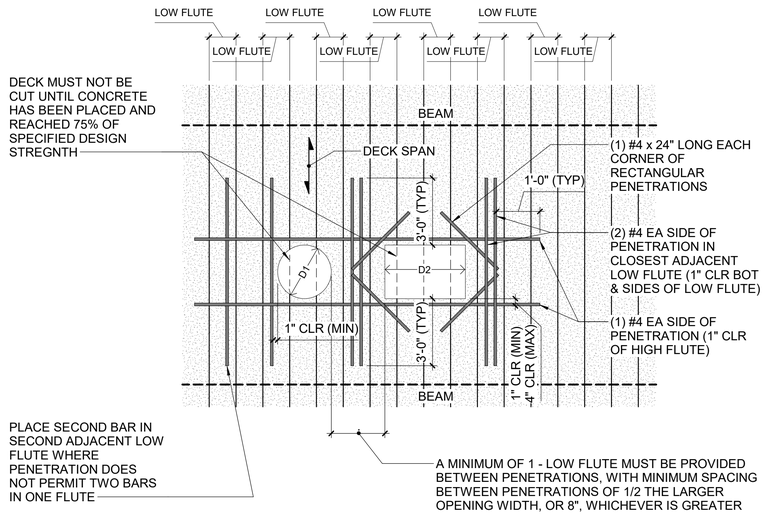
DECK SPAN PERPENDICULAR TO OPENING GROUP

TYPICAL SPACING REQUIREMENTS FOR FLOOR PENETRATIONS 6" WIDE OR LESS

A1 NTS

NOTES:

1. SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND SIZE OF FLOOR PENETRATIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL FRAMING PLANS.
2. PENETRATIONS, GREATER THAN 6", BUT LESS THAN OR EQUAL TO 24" IN ANY DIRECTION ARE PERMITTED IN THE ELEVATED SLAB ON METAL DECK WITHOUT ADDITIONAL STRUCTURAL STEEL FRAMING, PROVIDED THE SLAB IS REINFORCED AS INDICATED BELOW.
3. A MINIMUM OF (1) LOW FLUTE MUST BE PROVIDED BETWEEN PENETRATIONS, WITH MINIMUM SPACING BETWEEN PENETRATIONS OF 1/2 THE LARGER OPENING WIDTH, OR 8", WHICHEVER IS GREATER.



TYPICAL SPACING REQUIREMENTS FOR FLOOR PENETRATIONS 6" OR WIDER

A3 NTS

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POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS



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DKA JOB NUMBER

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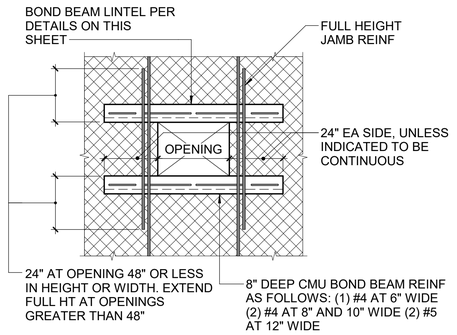
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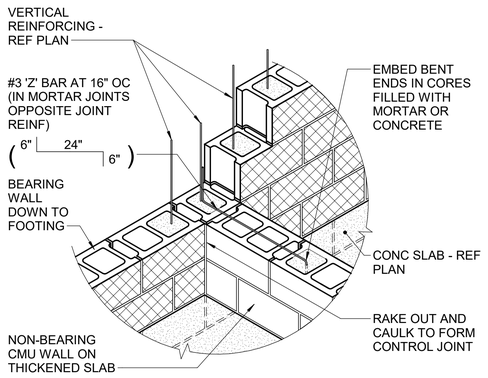
TYPICAL COMPOSITE SLAB DETAILS

S506



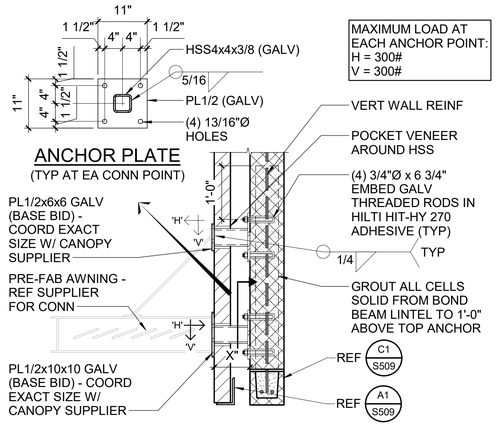
E1 TYPICAL MASONRY REINFORCING AT WALL OPENING DETAIL

NTS

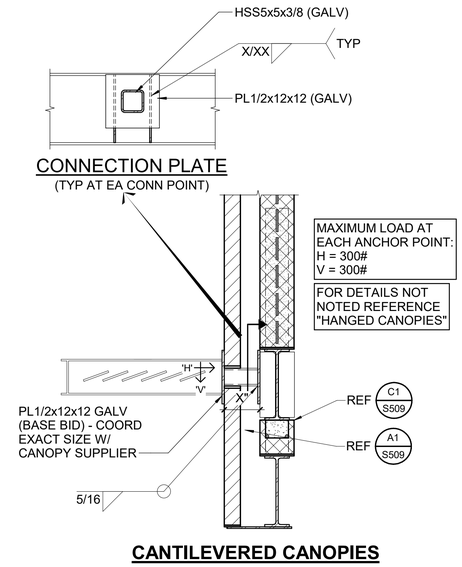


E3 TYPICAL DETAIL AT INTERSECTION OF BEARING AND NON-BEARING CMU WALLS

NTS



HANGED CANOPIES



CANTILEVERED CANOPIES

E5 TYPICAL PREFABRICATED AWNING ATTACHMENT DETAIL

NTS

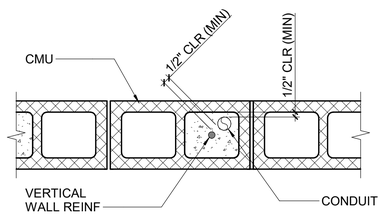
PERPENDICULAR TO BEAMS

PARALLEL WITH BEAMS

C1 TYPICAL NON-BEARING MASONRY PARTITION BRACING DETAILS

NTS

NOTES:
1. LOCATE CONDUIT IN UNREINFORCED CELLS TO EXTENT POSSIBLE.
2. DO NOT PLACE CONDUIT PASSING HORIZONTALLY THROUGH PLANE OF WALL WITHOUT WRITTEN APPROVAL.
3. CONDUIT SIZES GREATER THAN OR EQUAL TO 1 1/2" DIAMETER MUST BE PLACED IN UNREINFORCED CELLS.



PLAN

CONDUIT SIZE	AREA OF DISPLACEMENT (SINGLE CONDUIT)
1/2"Ø	0.196 in²
3/4"Ø	0.442 in²
1"Ø	0.785 in²
1 1/4"Ø	1.227 in²

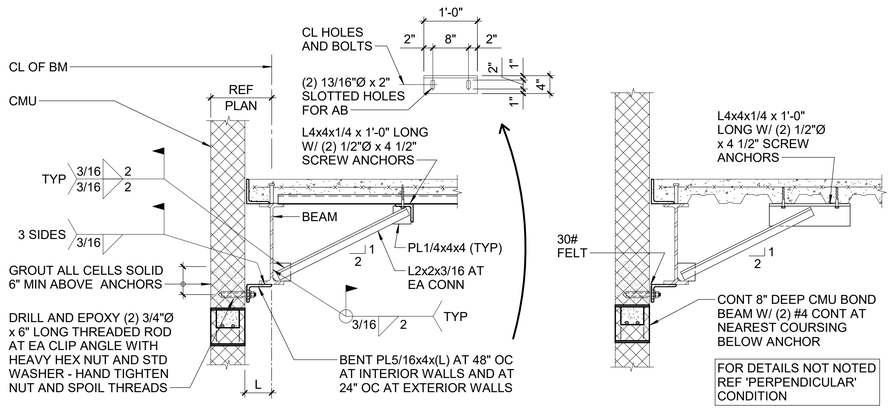
TOTAL DISPLACEMENT CALC
1/2"Ø + 3/4"Ø CONDUIT IN SAME CELL =
0.196 in² + 0.442 in² = 0.638 in²

NOMINAL CMU SIZE	MAXIMUM AREA OF GROUT DISPLACEMENT*
4"	0.284 in²
6"	0.456 in²
8"	0.646 in²
10"	0.884 in²
12"	1.132 in²
14"	1.380 in²
16"	1.628 in²

NOTE *: PER ACI 530.1

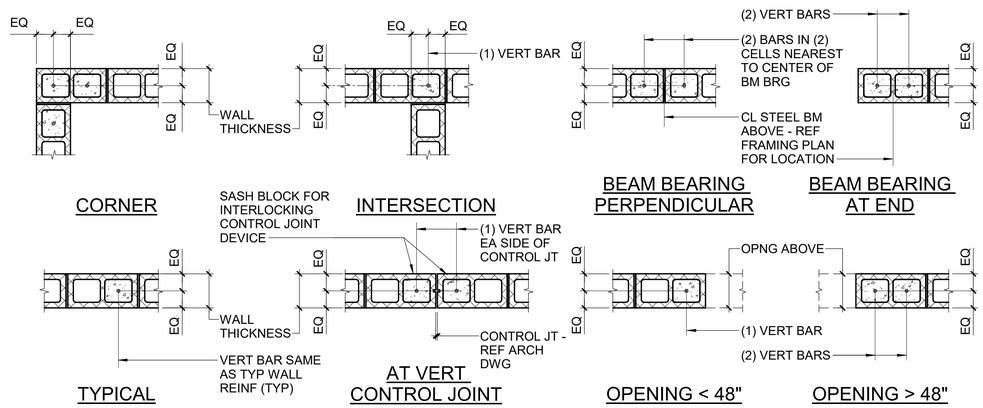
C4 TYPICAL EMBEDDED CONDUIT IN MASONRY DETAIL

NTS



PERPENDICULAR

PARALLEL



A1 TYPICAL CONCRETE MASONRY REINFORCING DETAILS

NTS

A5 TYPICAL CMU WALL BRACE DETAILS

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PROJECT INFORMATION

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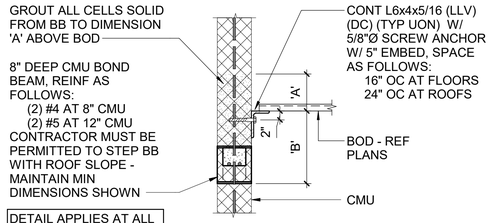
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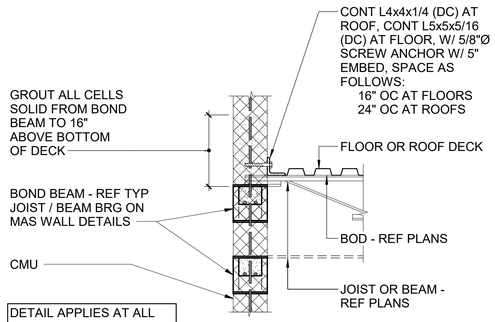
SHEET TITLE
TYPICAL MASONRY DETAILS

S507

GROUT DIMENSION SCHEDULE		
DIM	FLOOR	ROOF
'A'	14" MIN	8" MIN
'B'	18" MIN	12" MIN



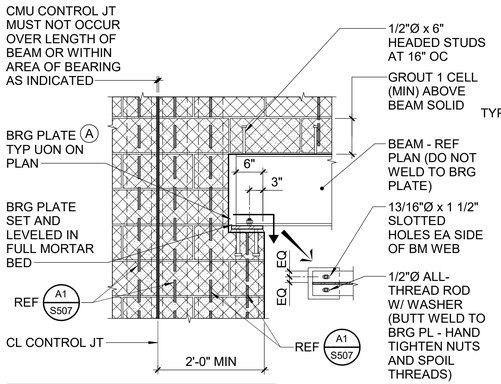
CONT ANGLE (PERP TO DECK)



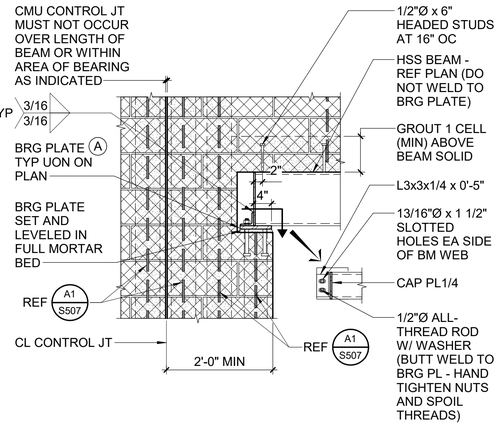
CONT ANGLE (PARALLEL TO DECK)

F1 TYPICAL MASONRY ANCHORAGE DETAILS

NTS

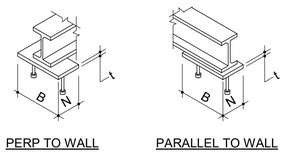


PARALLEL TO WALL ELEVATION (TYPICAL WF)



PARALLEL TO WALL ELEVATION (TYPICAL HSS)

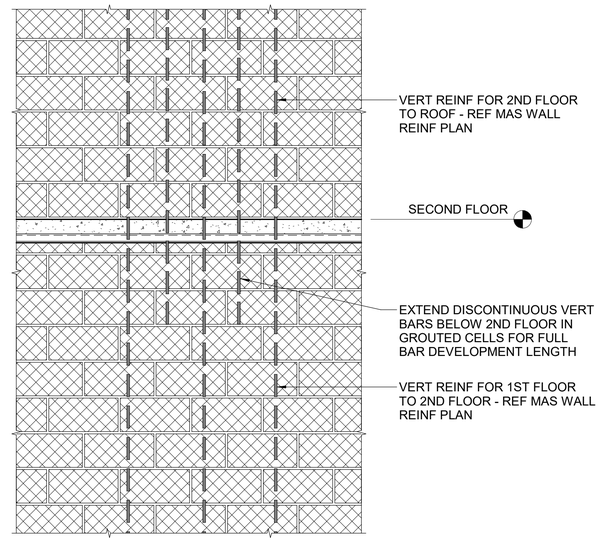
STEEL BEAM BEARING PLATE SCHEDULE				
MARK	LENGTH (B)	WIDTH (N)	THICKNESS (t)	HEADED STUDS
A	7"	11"	5/8"	(2) 3/4"Ø x 6" LONG



PERP TO WALL

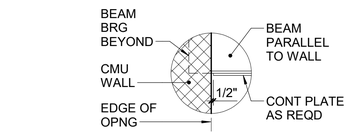
PARALLEL TO WALL

ISOMETRIC VIEW BEARING PLATES

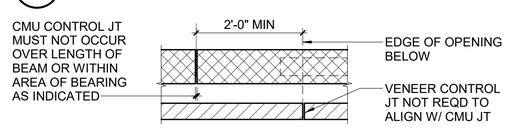


D6 SHEARWALL VERTICAL REINFORCEMENT DETAIL

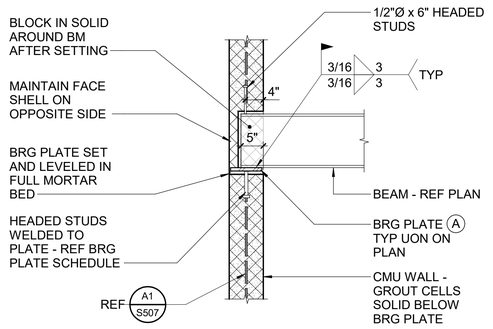
NTS



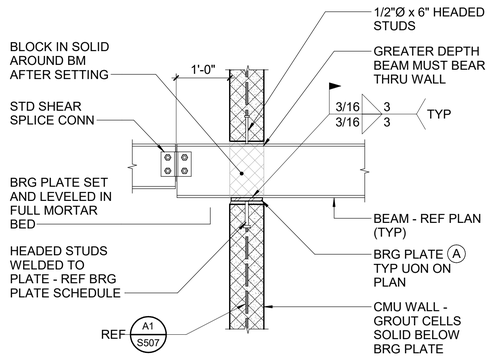
BOTTOM PLATE EXTENTS



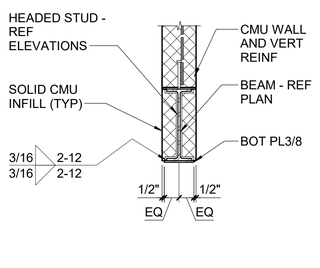
CMU vs VENEER CONTROL JOINTS



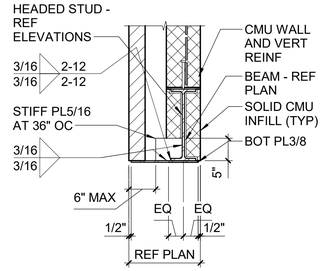
PERPENDICULAR TO WALL SECTION (TYPICAL)



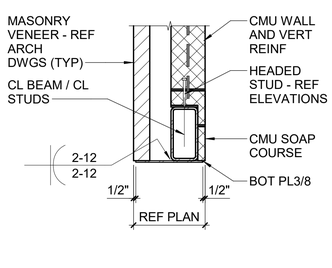
PERPENDICULAR TO WALL SECTION (COMMON BEARING)



TYPE I



TYPE 2



TYPE 3

TYPICAL BOTTOM PLATE DETAILS

A1 TYPICAL STEEL BEAM BEARING ON MASONRY DETAILS

NTS

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING
Town of Angier

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ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING CORPORATION C-4360 NOT VALID WITHOUT ORIGINAL SIGNATURE

NORTH CAROLINA PROFESSIONAL SEAL 044996 ENGINEER SCOTT M. FRANCIS

08/02/2025

DKA JOB NUMBER
2418

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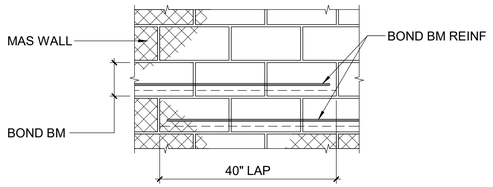
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Drawn By: KDO
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05/02/2025

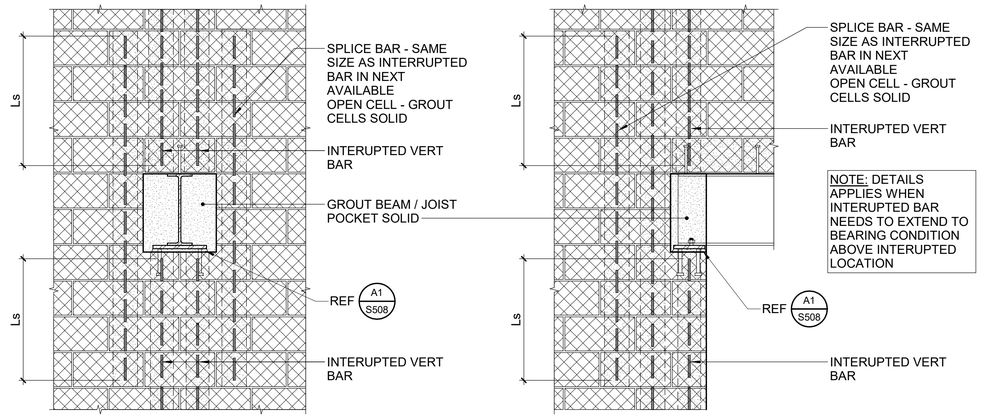
SHEET TITLE
TYPICAL MASONRY DETAILS

S508



TYPICAL STEPPED BOND BEAM DETAIL

E1 NTS



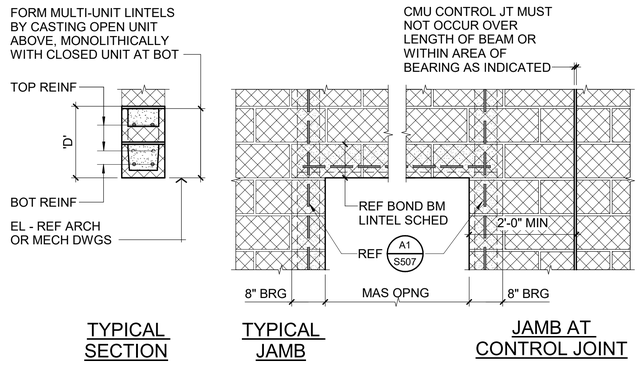
TYPICAL OFFSET SPLICE AT MASONRY WALL DETAIL

E3 NTS

BOND BEAM LINTEL SCHEDULE

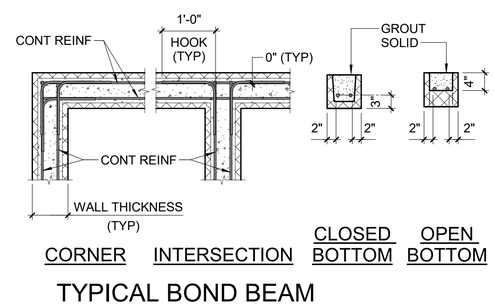
CLEAR SPAN	DEPTH 'D'	REINFORCING		
		6" CMU	8"&10" CMU	12" CMU
0" TO 3'-4"	8"	(1) #4 BOT	(2) #4 BOT	(2) #5 BOT
3'-5" TO 5'-4"	8"	(1) #5 BOT	(2) #5 BOT	(2) #5 BOT
5'-5" TO 6'-8"	16"	(1) #5 BOT	(2) #5 BOT	(2) #5 BOT
6'-9" TO 7'-10"	16"	(1) #5 T&B	(2) #5 T&B	(2) #5 T&B

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS; FOR DUCT OPENINGS REFER TO MECHANICAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR WIDTH OF LINTEL.
3. SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.



BOND BEAM LINTEL DETAILS

C1 NTS



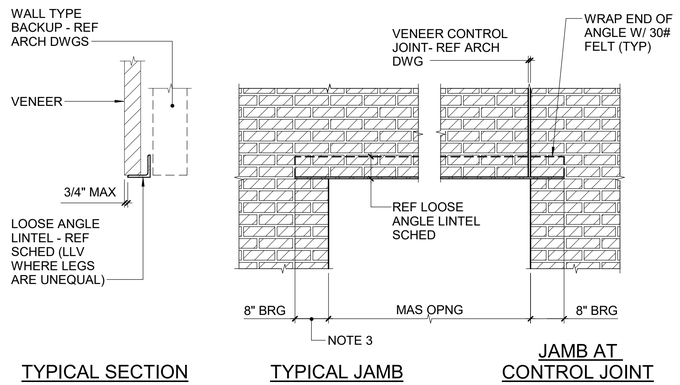
TYPICAL BOND BEAM REINFORCING DETAILS

C4 NTS

LOOSE ANGLE LINTEL SCHEDULE

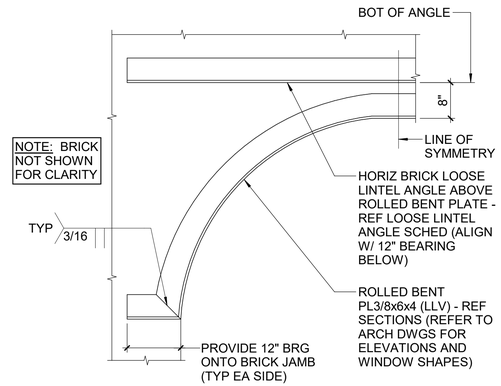
CLEAR SPAN	SIZE
0 TO 3'-4"	L4x4x5/16
3'-5" TO 5'-4"	L6x4x3/8 (LLV)
5'-5" TO 6'-8"	L6x4x3/8 (LLV)

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
2. LINTEL SCHEDULE APPLIES ONLY TO LINTEL ANGLES NOT OTHERWISE DETAILED.
3. WHERE JAMBS BETWEEN ADJACENT OPENINGS IS 16" OR LESS, PROVIDE CONT ANGLES.



TYPICAL LOOSE ANGLE LINTELS IN BRICK WALLS

A1 NTS



TYPICAL ARCHED BRICK LOOSE ANGLE LINTEL DETAIL

A4 NTS

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING

Town of Angier

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ANGIER, NC 27501

SEALS





05/02/2025

DKA JOB NUMBER
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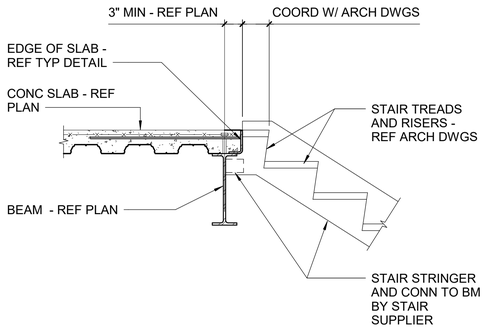
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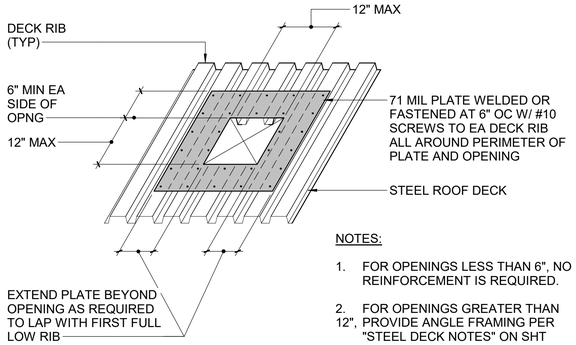
SHEET TITLE
TYPICAL MASONRY DETAILS

S509



E1 TYPICAL STAIR STRINGER ATTACHMENT DETAIL

NTS

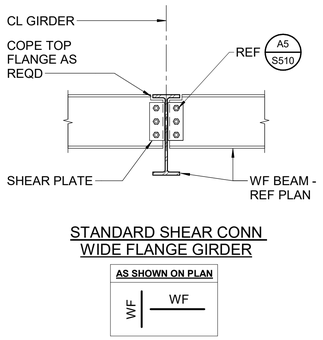


NOTES:

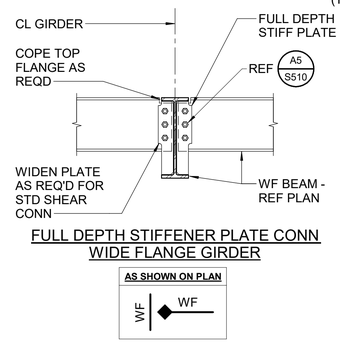
1. FOR OPENINGS LESS THAN 6", NO REINFORCEMENT IS REQUIRED.
2. FOR OPENINGS GREATER THAN 12", PROVIDE ANGLE FRAMING PER "STEEL DECK NOTES" ON SHT S001.

E3 TYPICAL STEEL ROOF DECK OPENING DETAIL

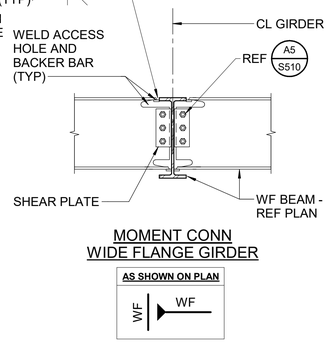
NTS



STANDARD SHEAR CONN WIDE FLANGE GIRDER



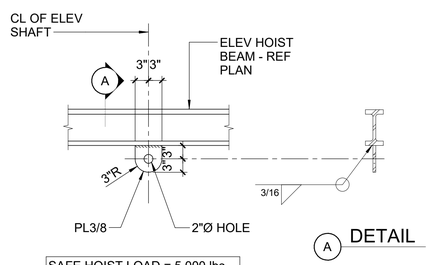
FULL DEPTH STIFFENER PLATE CONN WIDE FLANGE GIRDER



MOMENT CONN WIDE FLANGE GIRDER

C1 TYPICAL WIDE FLANGE BEAM TO GIRDER CONNECTION DETAILS

NTS

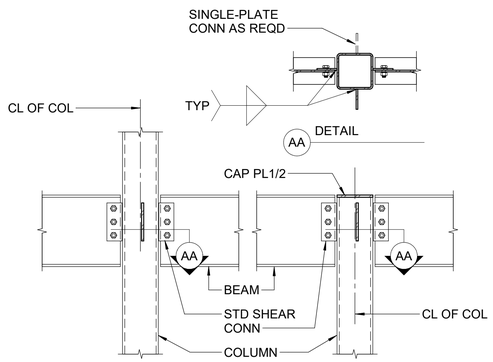


SAFE HOIST LOAD = 5,000 lbs.

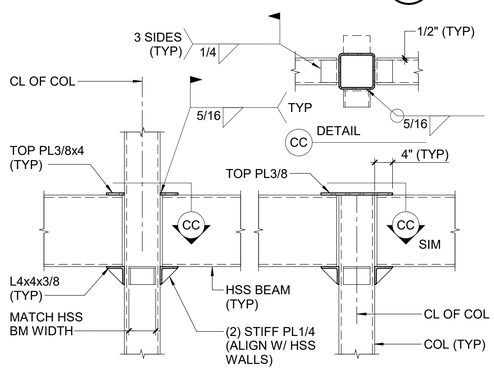
NOTE: VERIFY CAPACITY WITH ELEVATOR MFR

C4 TYPICAL ELEVATOR HOIST BEAM DETAILS

NTS



INTERMEDIATE TOP



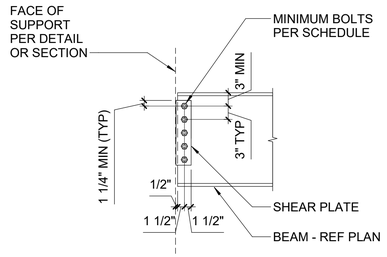
INTERMEDIATE TOP

A1 TYPICAL WIDE FLANGE BEAM TO HSS SQUARE COLUMN CONNECTION DETAILS

NTS

A3 TYPICAL HSS BEAM TO HSS COLUMN CONNECTION DETAILS

NTS



TYPICAL SHEAR PLATE

A5 TYPICAL SHEAR PLATE CONNECTION DETAIL

NTS

MINIMUM BEAM REACTION SCHEDULE

BEAM SIZE	DESIGN REACTION (LRFD)	MIN # OF BOLTS
W8 & W10	20 KIPS	2
W12, W14, & W16	35 KIPS	3
W18	50 KIPS	4
W21	60 KIPS	5
W24 & W27	75 KIPS	6
W30 AND GREATER	75 KIPS	6

NOTES:

1. REFERENCE "STRUCTURAL STEEL NOTES" IN GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. DESIGN CONNECTIONS FOR THE REACTIONS SHOWN ON PLAN. FOR REACTIONS NOT SHOWN ON PLAN, DESIGN CONNECTIONS FOR THE MINIMUM LOADS AND BOLTS INDICATED IN THE SCHEDULE ABOVE.

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PROJECT INFORMATION

POLICE HEADQUARTERS BUILDING

Town of Angier

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEERING SEAL C-4360 SCOTT M. FRANCIS

NORTH CAROLINA PROFESSIONAL SEAL 044996 ENGINEER SCOTT M. FRANCIS

09/02/2025

DKA JOB NUMBER

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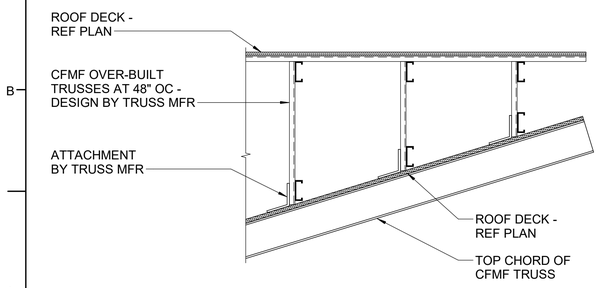
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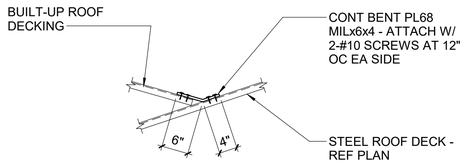
SHEET TITLE

TYPICAL STEEL FRAMING AND STEEL DECK DETAILS

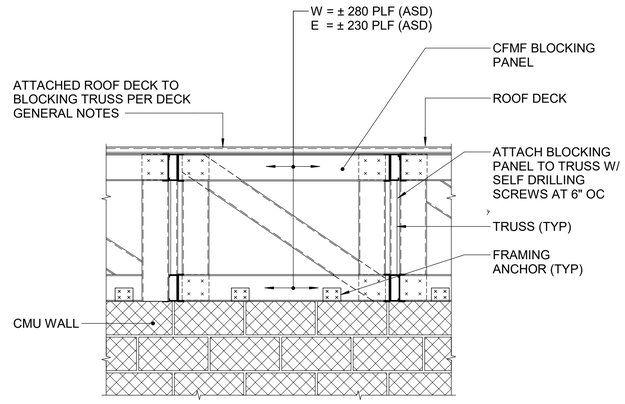
S510



A1 TYPICAL COLD FORMED OVER-BUILT ROOF FRAMING DETIALS
NTS



A3 TYPICAL BUILT-UP ROOF VALLEY DETAIL
NTS



A5 TYPICAL CFMF BLOCKING TRUSS DETAIL
NTS

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NORTH CAROLINA PROFESSIONAL ENGINEERING CORPORATION C-4360 REGISTERED STRUCTURAL ENGINEERS

NORTH CAROLINA PROFESSIONAL SEAL 044496 ENGINEER SCOTT M. FRANCIS

05/02/2025

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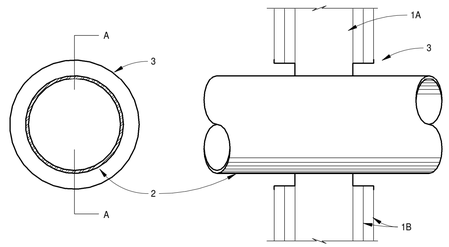
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SHEET TITLE
TYPICAL CFMF TRUSS DETAILS

S511

SYSTEM NO. WL1001

F RATINGS - 1, 2, 3 AND 4 HOUR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3 AND 4 HOUR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ.FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A - A

1 WALL ASSEMBLY - THE 1, 2, 3 OR 4 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAXIMUM 2 HOUR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER SPACED 16" ON CENTER WITH NOMINAL 2" x 4" LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3 5/8" WIDE x 1 3/8" DEEP CHANNELS SPACED MAXIMUM 24" ON CENTER.

B. GYPSUM BOARD* - NOMINAL 1/2" OR 5/8" THICK, 4' WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 26".

2 THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MINIMUM OF 0" (POINT CONTACT) TO MAXIMUM 2" PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOMINAL 24" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE - NOMINAL 24" DIAMETER (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOMINAL 12" DIAMETER (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.

C. CONDUIT - NOMINAL 6" DIAMETER (OR SMALLER) STEEL CONDUIT OR NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

D. COPPER TUBING - NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

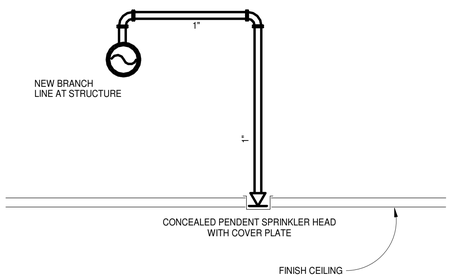
F. THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING - THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

1. NOMINAL 2" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
OMEGA FLEX INC
2. NOMINAL 1" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
TITEFLEX CORP
A BUNDY CO
3. NOMINAL 1" DIAMETER (OR SMALLER) STEEL FEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
WARD MFG INC

3 FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MINIMUM 5/8", 1 1/4", 1 7/8" AND 2 1/2" THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HOUR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MINIMUM 1/4" DIAMETER BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAXIMUM PIPE OR CONDUIT DIAMETER INCHES	F RATING HOUR	T RATING HOUR
1	1 OR 2	0+, 1 OR 2
1	3 OR 4	3 OR 4
4	1 OR 2	0
6	3 OR 4	0
12	1 OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HOUR.
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.
*BEARING THE UL CLASSIFICATION MARKING



A1 ARM OVER DETAIL (CONCEALED)
NOT TO SCALE

SPRINKLER DESIGN DATA					
PROJECT NAME: POLICE HEADQUATERS BUILDING				SYSTEM:	WET
PROJECT STREET ADDRESS: 29 W. MCIVER STREET ANGIER, NC 27501				SYSTEM SQ. FT.:	7,448
SUITE: 100		FLOOR# 2		CEILING HEIGHT:	VARIES
DESIGNED BY: ATLANTEC ENGINEERS		PHONE 919-571-1111		TOTAL BLDG. HGT.:	42'-0"
		HAZARD LIGHT HAZARD			
DESIGN SUMMARY					
	SYSTEM #1	SYSTEM #	SYSTEM #	SYSTEM #	SYSTEM #
DESIGN METHOD	CALC'D				
SYSTEM I.D. #					
LOCATION	OFFICE AREA				
TYPE OF SYSTEM	WET				
HAZARD CLASS	LIGHT HAZARD				
CRITERIA FROM	NFPA 13				
DESIGN AREA	1500 SQFT				
SPACING	225 SQFT				
DENSITY	0.1				
K-FACTOR	5.6				
HOSE ALLOWANCE	100				
#SPRINKLERS DESIGN					
REQUIREMENTS@					
G.P.M REQ'D.					
P.S.I. REQ'D.					
NODE #					
SAFETY FACTOR					
G.P.M.					
P.S.I.					

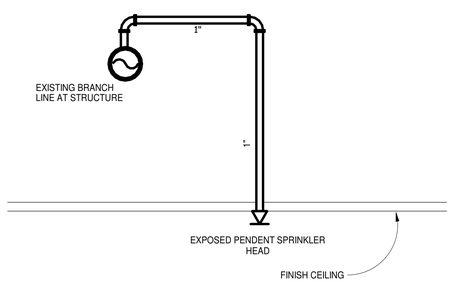
WATER SUPPLY INFORMATION							
TESTED BY	ANDREW KING ENGINEERING, PLLC		DATE/TIME	07/24/24	11:45 AM	PRESSURE HYDRANT	450'
HYDRANT ELEVATION	270'		FLOW HYDRANT			STATIC	
STATIC	74 PSI		RESIDUAL	57 PSI		FLOW	826 GPM
COPY OF WATER TEST DATA INCLUDED WITH CALCS ARE REQUIRED							

FIRE PUMP DATA							
RATED G.P.M.	N/A	RATED PRESSURE	N/A	DIESEL Hp.	N/A		
ELECTRIC VOLTS	N/A	BOOST PRESSURE	N/A	DISCHARGE FLOW	N/A		
RESIDUAL(PSI)	N/A	FLOW (GPM)	N/A	COMBINED GPM	N/A		
COMBINED STATIC	N/A	COMBINED RESIDUAL	N/A	SUCTION NODE	N/A	DISCHARGE NODE	N/A
IF STORAGE IS GREATER THAN 12'			COMPLETE COMMODITY STORAGE DESIGN				INFO.
COMMODITY DESCRIPTION		N/A	STORAGE TYPE(RACK, BIN)				N/A
COMMODITY CLASS		N/A	STORAGE HEIGHT	N/A	CLEARANCE		N/A
STABLE/UNSTABLE		N/A	OPEN/CLOSE ARRAY	N/A	WET/DRY SYSTEM		N/A

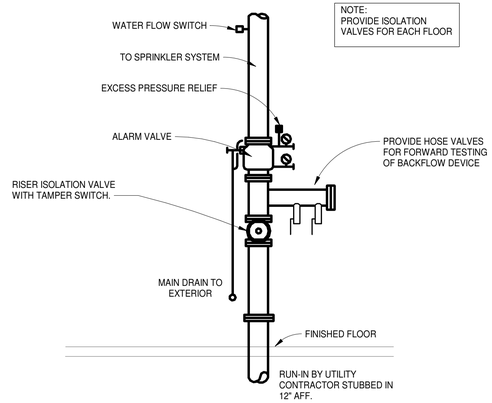
FIQURE#	CURVE#	AREA	DENSITY	HEIGHT FACTOR	CLEAR FACTOR	ARRAY FACTOR	DRY PENALTY	DESIGN	MINIMUM DESIGN	FINAL DESIGN
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	INITIAL									
	SECONDARY									

NOTE:

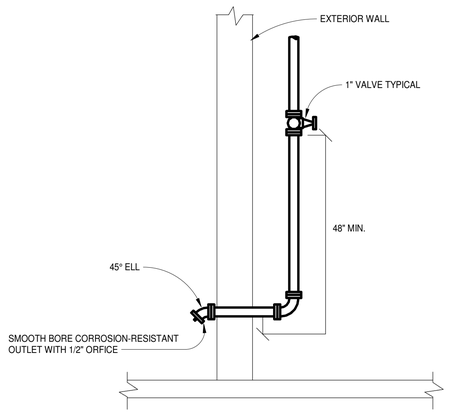
THIS PROJECT WILL HAVE AN AUTOMATIC FIRE SPRINKLER SUPPRESSION SYSTEM INSTALLED. THIS SYSTEM SHALL BE INSTALLED PER CHAPTER 9 OF THE NC FIRE CODE AND NFPA 13. A SEPARATE PERMIT SHALL BE REQUIRED FOR THE INSTALLATION OF THIS SYSTEM. THE SPRINKLER CONTRACTOR WILL BE RESPONSIBLE FOR THE APPLICATION AND SUBMISSION OF ALL PLANS AND SPECIFICATION AND PROVIDE CONFIRMATORY FLOW TEST AFTER START OF CONSTRUCTION.



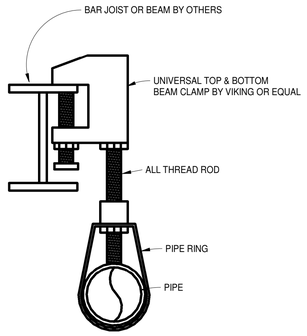
A3 ARM OVER DETAIL (EXPOSED)
NOT TO SCALE



F5 RISER DETAIL
NOT TO SCALE



C5 INSPECTOR'S TEST DETAIL
NOT TO SCALE



A5 HANGER DETAIL
NOT TO SCALE

GENERAL NOTES

1. THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES PRIOR TO INSTALLATION. (LIGHTS, PIPES, ETC.)
2. THE SPRINKLER CONTRACTOR SHALL COORDINATE SHUT-OFF TIMES WITH OWNER.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL NFPA CODES, 13 & 72.
4. THE SPRINKLER CONTRACTOR SHALL BE A LICENSED SPRINKLER CONTRACTOR
5. WIRING FROM ALL TAMPER SWITCHES AND FLOW SWITCHES TO FIRE ALARM PANEL SHALL BE BY THE ELECTRICAL CONTRACTOR.
6. ALL CUTTING AND PATCHING SHALL BE DONE BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.
7. ALL 1" PIPE SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTING. PIPING 1 1/4" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL WITH ROLLED GROOVE FITTING.
8. ALL HEADS ARE TO BE CENTERED IN TILES UNLESS OTHERWISE NOTED. TESTING SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. PRESSURE TEST
9. SHALL BE STATIC WATER AT TEST PRESSURE OF 200 PSIG FOR 2 HOURS DURATION WITHOUT LEAK FROM ANY JOINT OR SEGMENT OF THE PIPING SYSTEM FROM ANY EQUIPMENT OR DEVICE.
10. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE WORK OF OTHER, TO BUILDING AND PROPERTY / MATERIALS OF OTHERS CAUSED BY LEAKS IN SPRINKLER EQUIPMENT, UNPLUGGED OR DISCONNECTED PIPIES FOR FITTINGS, AND SHALL PAY FOR NECESSARY REPLACEMENT OR REPAIR OF WORK OR ITEMS SO DAMAGED DURING THE INSTALATION AND TESTING PERIODS OF THE STANDPIPE WORK. TESTS PER SECTION 1-11 OF NFPA 13 TO BE WITNESSED BY THE OWNERS INSURANCE UNDERWRITER(S).
11. THE INSTALLING CONTRACTOR AND THE ARCHITECT / ENGINEER FIELD INSPECTOR - REPRESENTATIVE, SPRINKLER CONTRACTOR TO SUBMIT 3 COPIES OF NFPA 13-1990 "CONTRACTORS MATERIAL AND TEST CERTIFICATE(S)".
12. FLUSH, TEST, AND INSPECT SPRINKLER PIPING SYSTEMS IN ACCORDANCE WITH NFPA 13.
13. REPLACE PIPING SYSTEM COMPONENTS WHICH DO NOT PASS THE TEST PROCEDURES SPECIFIED, AND RETEST REPAIRED PORTION OF THE SYSTEM. THE CONTRACTOR SHALL PROVIDE A UNIT COST TO ADD ADDITIONAL HEADS REQUIRED IN THE FIELD.
14. THE CONTRACTOR SHALL INCLUDE COST IN CONTRACT TO ADD HEADS REQUIRED IN THE FIELD.
15. THE G.C. TO PAINT EXPOSED PIPING, COORDINATE ROUTING OF PIPING WITH G.C.

SYMBOL LEGEND

SPRINKLER RISER

SPRINKLER MAIN

RATED ASSEMBLIES LEGEND

1-HR RATED FIRE BARRIER

DESIGN RATIONAL

THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL PROVIDE A COMPLETE DESIGN IN ACCORDANCE WITH NFPA 13 FOR LIGHT HAZARD. THE DESIGN SHALL BE A HYDRAULIC CALCULATION METHOD GENERATED BY A FIRE SPRINKLER COMPUTER PROGRAM. THE DESIGN SHALL BE PERFORMED BY A NICET LEVEL III TECHNICIAN OR A PROFESSIONAL ENGINEER EXPERIENCED IN FIRE SPRINKLER DESIGN. ALL DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE SPRINKLER EQUIPMENT AND MATERIALS TO THE PROJECT ENGINEER OF RECORD FOR REVIEW. FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATION OF HANGER SUPPORTS FOR SEISMIC RESTRAINT.

THE FOLLOWING SPECIFIC REQUIREMENTS SHALL BE INCORPORATED INTO THE DESIGN OF THE SYSTEM:

1. FIRE MAIN FROM THE TAP AT THE UTILITY SYSTEM WATER MAIN INTO THE BUILDING TO ONE FOOT ABOVE THE FINISHED FLOOR AT THE DESIGNATED RISER LOCATION SHALL BE INSTALLED BY THE SITE UTILITY CONTRACTOR.
2. THE SPRINKLER CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
3. SEE GENERAL NOTE 7 FOR PIPE SPECIFICATION.
4. SPRINKLER HEADS SHALL BE CENTERED IN ALL LAY-IN CEILING TILES.
5. PROVIDE LIGHT COVERAGE IN RISER 104, ELEC / DATA 110, AND UNDER STAIRS IN STAIWAY S-116 WITH EXPOSED UPRIGHT HEADS.
6. SPRINKLER HEADS SHALL BE CONCEALED PENDENT TYPE WITH WHITE COVER PLATE UNLESS OTHERWISE NOTED.
7. RPZ BACKFLOW DEVICE AND FIRE DEPARTMENT CONNECTION TO BE LOCATED IN HOT BOX ON SITE. SEE SITE PLANS FOR LOCATION.
8. PROVIDE SEISMIC RESTRAINTS PER NFPA 13 FOR SEISMIC DESIGN CATEGORY C AND RISK CATEGORY IV.

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PROJECT INFORMATION

POLICE HEADQUARTER BUILDING
TOWN OF ANGIER

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 22035 JAMES B. DAVIS

IMEG CORPORATION No. F-1507

5/2/25

DKA JOB NUMBER
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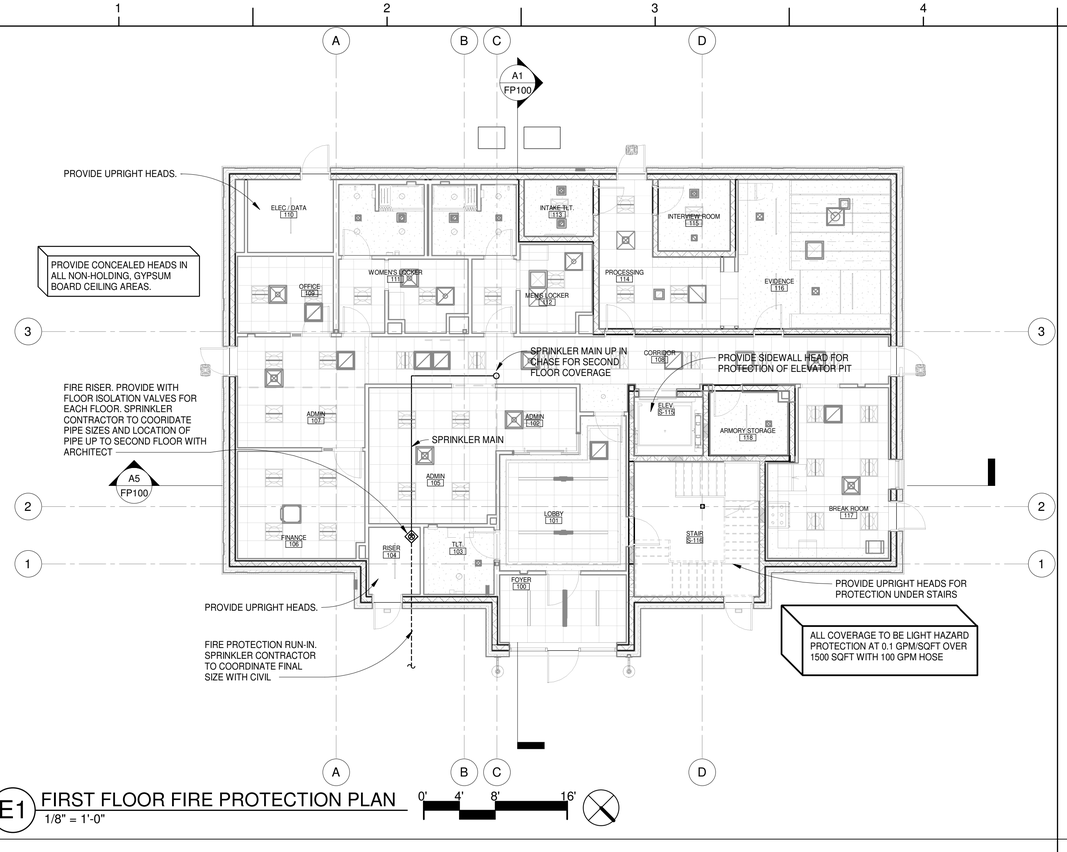
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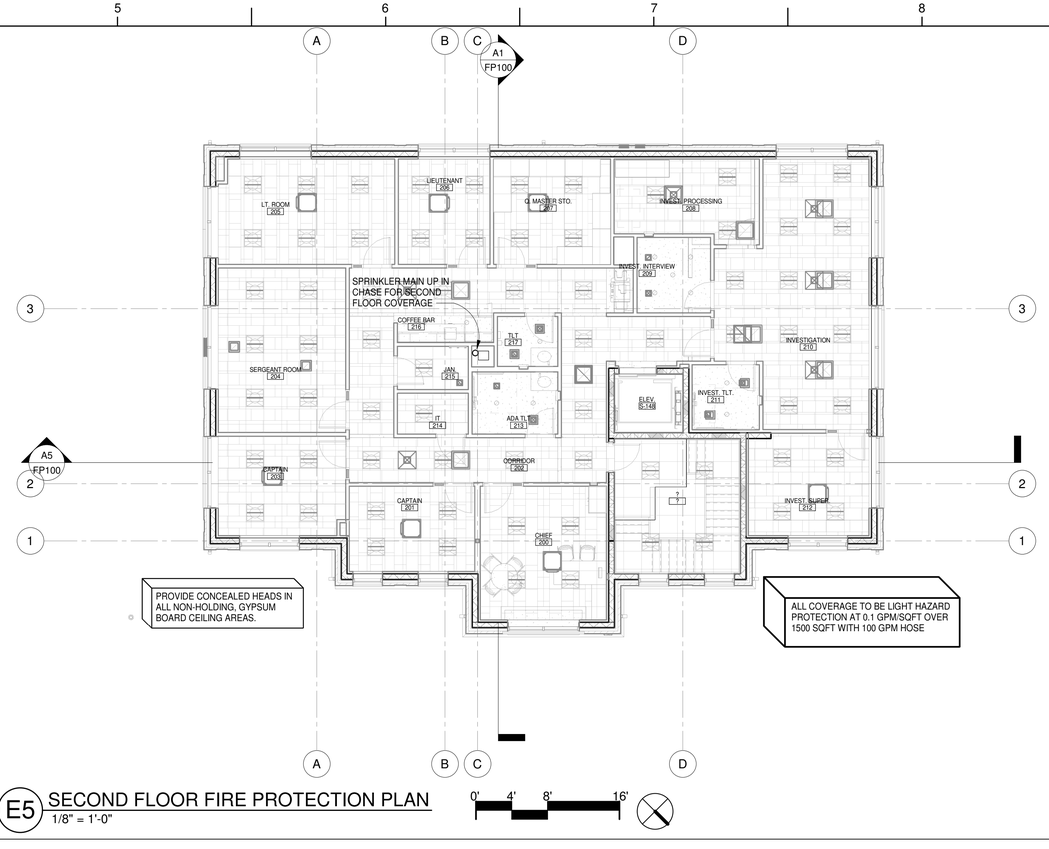
SHEET TITLE
FIRE PROTECTION LEGEND, NOTES, & DETAILS

FP000



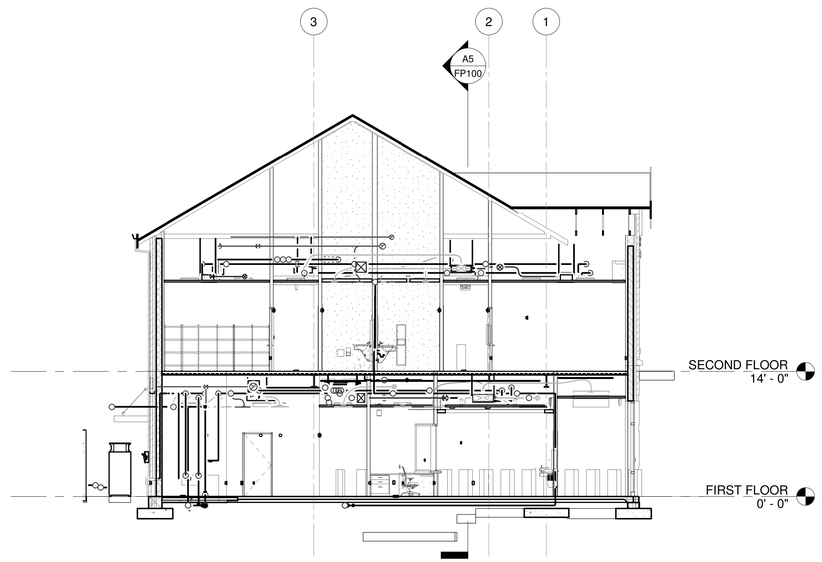
E1 FIRST FLOOR FIRE PROTECTION PLAN
1/8" = 1'-0"

0' 4' 8' 16'

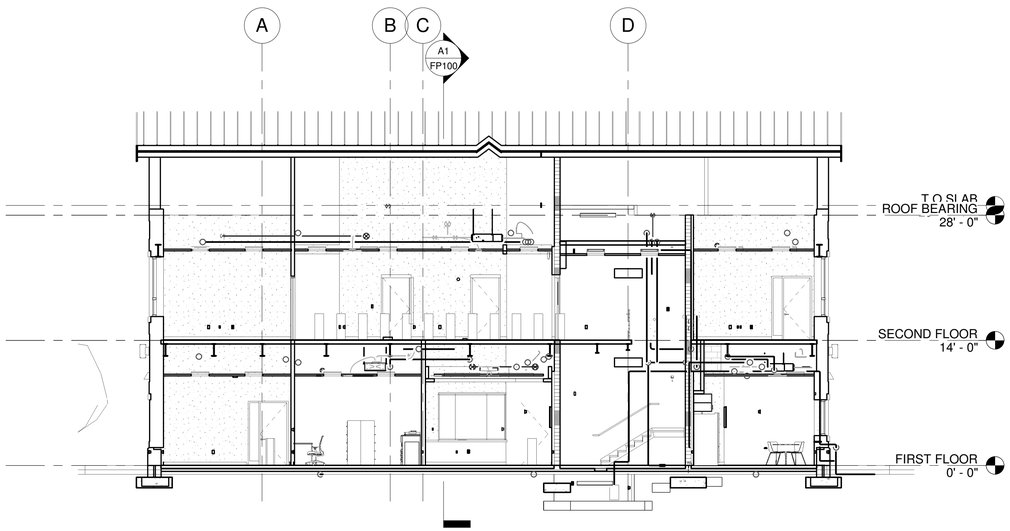


E5 SECOND FLOOR FIRE PROTECTION PLAN
1/8" = 1'-0"

0' 4' 8' 16'



A1 BUILDING SECTION VIEW #1
1/8" = 1'-0"



A5 BUILDING SECTION VIEW #2
1/8" = 1'-0"

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PROJECT INFORMATION

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SEALS

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — SEAL 22035 — JAMES B. EDWARDS, JR. — 5/2/25

DKA JOB NUMBER
2418

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SHEET TITLE
FIRE PROTECTION PLANS

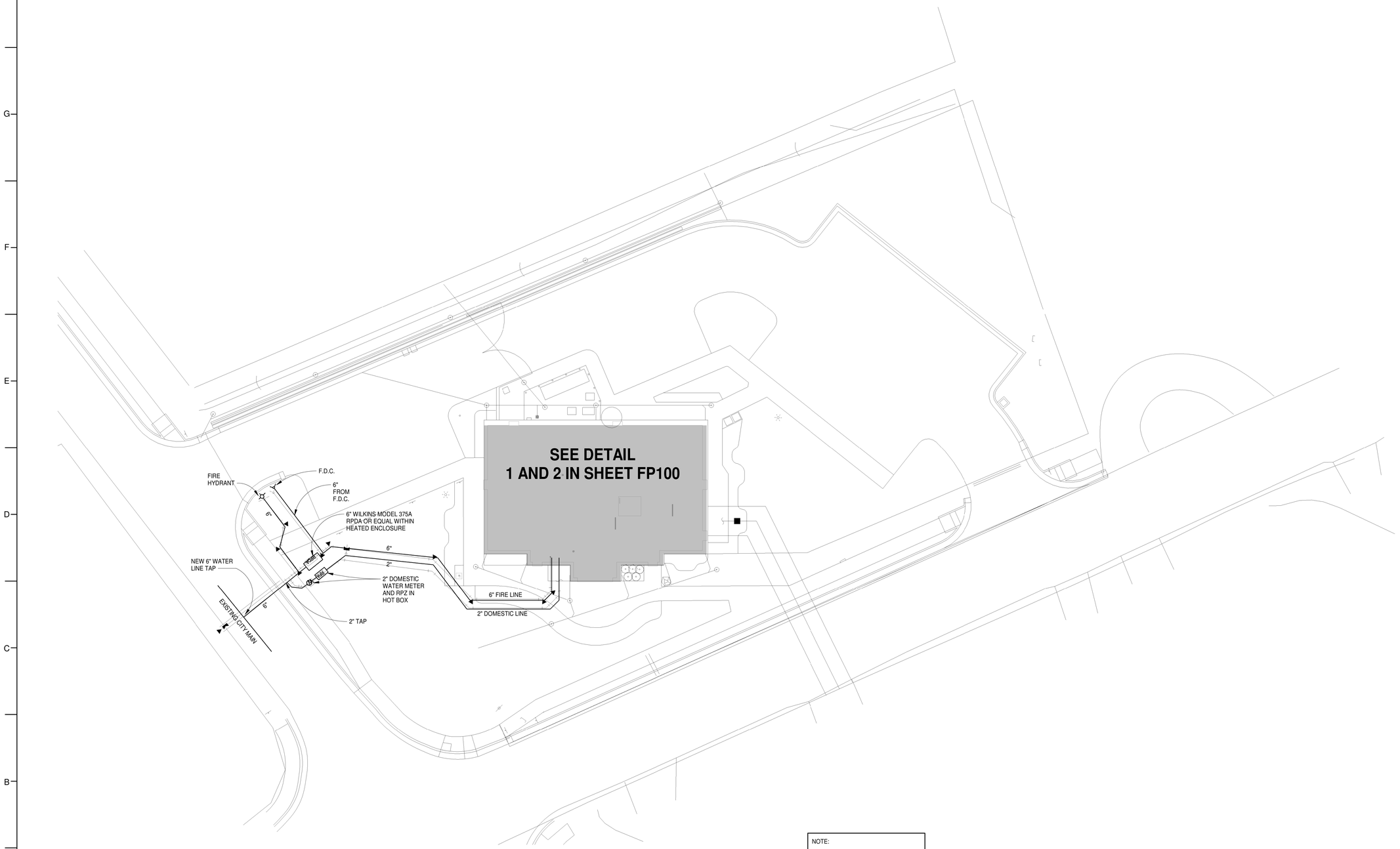
FP100

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NOTE:

FIRE PROTECTION IS SITE PLAN FOR REFERENCE ONLY. SEE C501 FOR SITE UTILITY DRAWING.

A1 FIRE PROTECTION SITE PLAN
1/16" = 1'-0"

0' 8' 16' 32'

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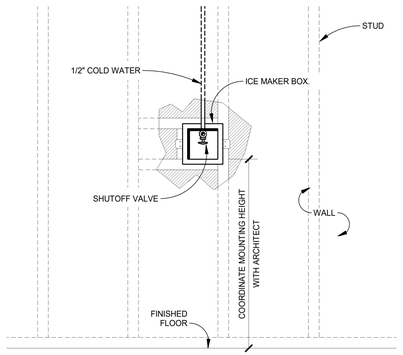
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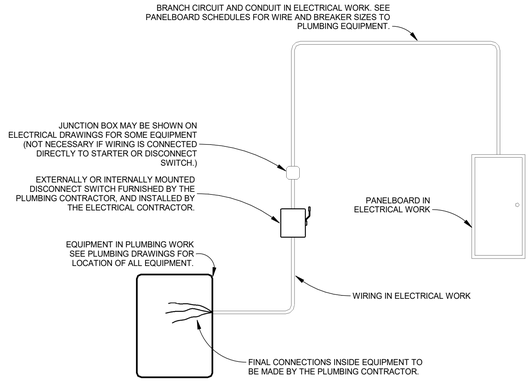
0 1 2 3
REF. SCALE IN INCHES
PROJECT# 24146

SHEET TITLE
FIRE PROTECTION SITE PLAN

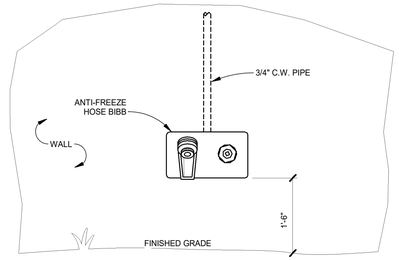
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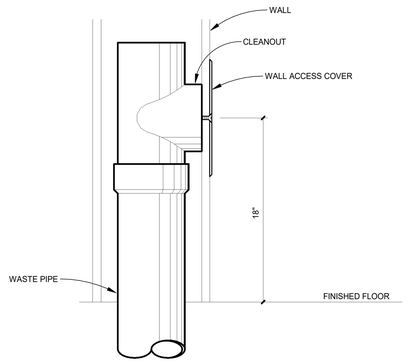
F1 ICE MAKER BOX DETAIL
NOT TO SCALE



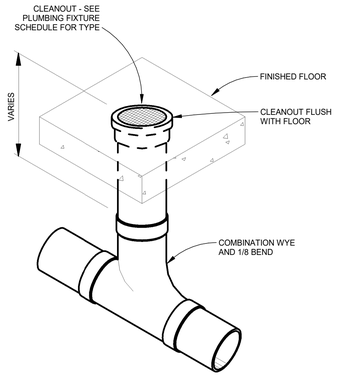
F3 TYPICAL WIRING DETAIL
NOT TO SCALE



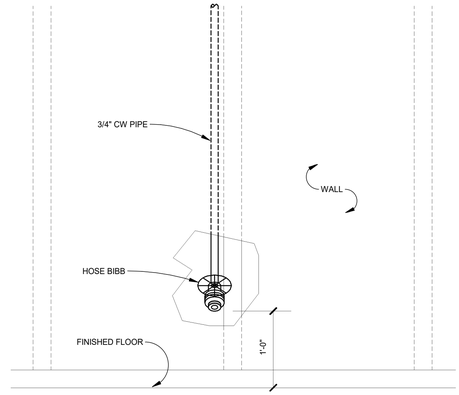
F5 EXTERIOR HOSE BIBB DETAIL
NOT TO SCALE



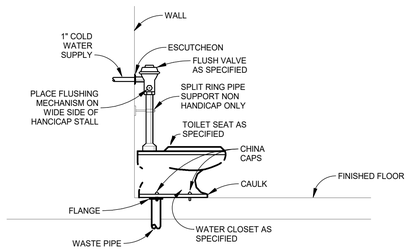
C1 WALL CLEANOUT DETAIL
NOT TO SCALE



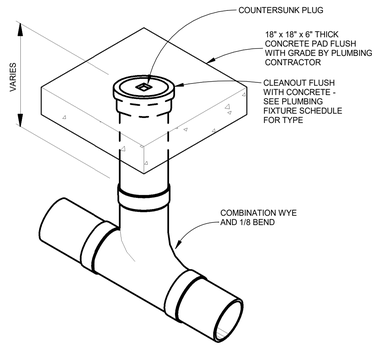
C3 FLOOR CLEANOUT DETAIL
NOT TO SCALE



C5 INTERIOR HOSE BIBB DETAIL
NOT TO SCALE

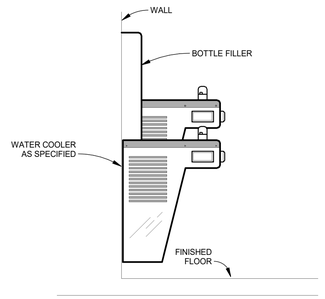


A1 WATER CLOSET DETAIL
NOT TO SCALE



NOTE: SEE SITE AND/OR UTILITY PLAN FOR LOCATION AND FINISH GRADE ELEVATION

A3 EXTERIOR CLEANOUT DETAIL
NOT TO SCALE



A5 WATER COOLER DETAIL
1/8" = 1'-0"

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
4. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ENGINEERS ATTENTIONS.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR.
7. WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER. SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATIC ALLY TESTED FOR ONE HOUR AT 150 PSI. TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
8. WATER PIPING LOCATED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
9. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED. INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS. INSULATION SHALL BE 1" FIBERGLASS. EXPOSED PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
10. WATER SHUT - OFF VALVES ABOVE FINISHED CEILING ARE TO BE FREE FROM OBSTRUCTIONS SUCH AS DUCTWORK, LIGHTS, WIRING AND OTHER PIPING SO AS TO PROVIDE EASY ACCESS. MOUNT NO MORE THAN 2'-0" ABOVE FINISHED CEILING.
11. PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL.
12. WATER HEATERS SHALL HAVE AND EFFICIENCY MEETING REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
13. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER HIS CONTRACT.
14. SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
15. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
16. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
17. LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC...) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
18. VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.
19. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. INSTALLED IN ACCORDANCE WITH ALL CODES. THE PLUMBING CONTRACTOR TO MAKE FINAL CONNECTION TO ALL EQUIPMENT REQUIRING GAS AND COORDINATE THE GAS CONNECTION SIZE TO THE EQUIPMENT. PROVIDE UNDERGROUND MAGNETIC TRACING TAPE ON ALL UNDERGROUND GAS PIPING.
20. PROVIDE VACUUM BREAKERS ON ALL EQUIPMENT DIRECTLY CONNECTED TO THE WATER SYSTEM.
21. ALL EQUIPMENT DIRECTLY CONNECTED TO THE WATER SYSTEM SHALL BE PROVIDED WITH A DOUBLE CHECK VALVE AS APPROVED BY THE TOWN OF ANGIER.
22. ALL VENT PIPING THROUGH THE ROOF SHALL BE A MINIMUM OF 15'-0" FROM ALL MAKE-UP AIR INLETS OR A MINIMUM OF 2'-0" ABOVE THE TOP OF ALL MAKE-UP AIR INLETS. VENTS THROUGH ROOF ARE TO BE ON REAR OF BUILDING.
23. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING MINIMUM FACILITY CALCULATIONS.
24. ALL INDIRECT WASTE IS TO BE PROVIDED WITH AN AIR GAP 2 TIMES THE SIZE OF THE WASTE INLET.
25. THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MANHOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
26. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR DEMOLITION AT NO COST TO THE OWNER.
27. THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	COLD WATER PIPING
	WATER PIPING DIRECTION OF FLOW
	COLD WATER PIPING BELOW FINISHED FLOOR
	HOT WATER PIPING
	HOT WATER PIPING BELOW FINISHED FLOOR
	HOT WATER RETURN PIPING
	BALL VALVE
	WATER PIPING TURNED DOWN
	WATER PIPING TURNED UP
	PIPING SIDE CONNECTION
	TRAP PRIMER
G	GAS PIPING
	SOLENOID VALVE
	SANITARY SEWER / WASTE PIPING
	SANITARY SEWER / WASTE PIPING DIRECTION OF FLOW
	VENT PIPING
	VENT PIPE UP
	NON FREEZE WALL HYDRANT
	HOSE BIBB
P1	PLUMBING FIXTURE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
P2	PLUMBING FIXTURE PROVIDED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR
	FLOOR CLEANOUT
	WALL CLEANOUT
	FLOOR DRAIN
	FLOOR SINK
E.C.	ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR. ROUTE PIPING TO AVOID.

PLUMBING LOAD SUMMARY

SANITARY SEWER DEMAND FU	WATER DEMAND FU	WATER DEMAND GPM	GAS MBH
70.0	128.0	75.0	458 (ATLERNATE #1:1738)

RATED ASSEMBLIES LEGEND

1-HR RATED FIRE BARRIER

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IMEG# 24146

PROJECT INFORMATION

POLICE HEADQUARTER BUILDING
TOWN OF ANGIER

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA REGISTERED PROFESSIONAL CORPORATION IMEG CORPORATION No. F-1507

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 22035 ENGINEERING SERVICES & DELIVERY, INC.

5/5/25

DKA JOB NUMBER
2418

REVISIONS

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PM: JBD
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PERMIT DRAWINGS
05/02/25

SHEET TITLE
PLUMBING LEGENDS, NOTES, & DETAILS

P000

PLUMBING FIXTURE SCHEDULE

SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
CO-1	WALL CLEANOUT	ZURN	CO2413-PVC	MIFAB		JR SMITH		-	-	SEE PLUMB DRAWINGS
	ACCESS COVER	ZURN	CO2530-SS7	MIFAB		JR SMITH				
	PVC CLEANOUT BODY AND PLUG TO BE GAS AND WATER TIGHT. PLUG TO HAVE A BRASS THREADED INSERT TO RECEIVE SECURING SCREW FOR STAINLESS STEEL ROUND ACCESS COVER.									
CO-2	FLOOR CLEANOUT	ZURN	CO2449	MIFAB		JR SMITH		-	-	SEE PLUMB DRAWINGS
	PVC CLEANOUT WITH AND ADJUSTABLE PVC RISER, NICKEL BRONZE FRAME AND COVER, AND AN ABS TAPER THREADED PLUG. CLEANOUT TO BE GAS AND WATERTIGHT.									
CO-3	EXTERIOR CLEANOUT	ZURN	Z-1449-BP	MIFAB	C1220	JR SMITH	4283	-	-	SEE PLUMB DRAWINGS
	CLEANOUT FERRULE WITH CAST IRON BODY, WITH GAS AND WATERTIGHT ABS COUNTERSUNK PLUG, MOUNT IN CONCRETE.									
EWC-1	WATER COOLER	OASIS	P8SBFSL	ELKAY	LZSTL8WS	HALSEY TAYLOR	HTHB-HACDBLPV-WF	1/2"	-	2"
	PROVIDE WITH FRONT AND SIDE CONTROLS, SHUT-OFF VALVE, CARRIER, AND TRAP. PROVIDE STAINLESS STEEL FINISH. PROVIDE WITH BOTTLE FILLER.									
FD-1	FLOOR DRAIN	ZURN	ZN-415-S	WADE	W-1100-G6-1-6	MIFAB	F1100C-S	1/2"	-	3"
	FLOOR DRAIN TO HAVE A 3" WASTE BOTTOM OUTLET, CAST IRON BODY WITH ADJUSTABLE COLLAR, POLISHED 6" x 6" NICKEL BRONZE SQUARE HEELPROOF STRAINER, AND 1/2" TRAP PRIMER CONNECTION.									
FD-2	FLOOR DRAIN	ZURN	ZN-415-H	WADE		MIFAB		1/2"	-	4"
	FLOOR DRAIN TO HAVE A 4" WASTE BOTTOM OUTLET, CAST IRON BODY WITH ADJUSTABLE COLLAR, POLISHED NICKEL BRONZE ROUND HEELPROOF STRAINER, AND 1/2" TRAP PRIMER CONNECTION.									
H-1	HOSE BIBB	CHICAGO	952	WOODFORD	B24	MIFAB	HY9241	3/4"	-	-
	HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED FLOOR.									
H-2	ANTI-FREEZE HOSE BIBB	WOODFORD	17	MIFAB	HY-7500			3/4"	-	-
	HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER AND BACKSIPHONAGE PROTECTION. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB.									
IM-1	ICE MAKER BOX	OATEY CO.	38689	GUY GRAY	BIM875			1/2"	-	-
	METAL ICE MAKER BOX WITH VALVE AND SUPPLY TUBE TO REFRIGERATOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.									
L-1	LAVATORY	KOHLER	K-2861-0	ZURN	Z5834	AMERICAN STANDARD	0355.012			
	FAUCET	DELTA	523LF-HGMHDF	CHICAGO FAUCETS	2200-4	MOEN	8470			
	TRAP	McGUIRE	8902	ELJER	804-1185	KOHLER	K-8999			2"
	SUPPLY	McGUIRE	158LK	ELJER	802-0315	KOHLER	K-7601-P	1/2"	1/2"	
	WALL HUNG LAVATORY SHALL BE MADE OF CAST IRON WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. DECK MOUNTED FAUCET SHALL BE CHROME FINISH, SINGLE LEVER, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN AND TRUEBRO LAV SHIELD.									
L-2	LAVATORY	KOHLER	K-2196-4-0	SLOAN	SS-3002	AMERICAN STANDARD	0476.028			
	FAUCET	DELTA	523LF-HGMHDF	CHICAGO FAUCETS	2200-4	MOEN	8470			
	TRAP	McGUIRE	8902	ELJER	804-1185	KOHLER	K-8999			2"
	SUPPLY	McGUIRE	158LK	ELJER	802-0315	KOHLER	K-7601-P	1/2"	1/2"	
	SELF-RIMMING LAVATORY SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW, AND INCLUDE SEALANT. FAUCET SHALL BE CHROME FINISH, SINGLE LEVER, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW, CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET TRAINER AND McGUIRE PROWRAP INSULATOR.									
L-3	LAVATORY	KOHLER	K-2861-0	ZURN	Z5834	AMERICAN STANDARD	0355.012			
	FAUCET	SLOAN	ETF-600	CHICAGO FAUCETS	2200-4	MOEN	8470			
	TRAP	McGUIRE	8902	ELJER	804-1185	KOHLER	K-8999			2"
	SUPPLY	McGUIRE	158LK	ELJER	802-0315	KOHLER	K-7601-P	1/2"	1/2"	
	WALL HUNG LAVATORY SHALL BE MADE OF CAST IRON WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. DECK MOUNTED, HARDWIRED SENSOR FAUCET SHALL BE CHROME FINISH, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN AND TRUEBRO LAV SHIELD. PROVIDE FAUCET WITH COVER PLATE AND MIXING VALVE.									
LWC-1	LAVATORY/WATER CLOSET COMBO	ACORN	1449-LO-2							
	WASTE CONNECTION									(1) 1 1/2" (1) 3"
	SUPPLY	McGUIRE	158LK					1/2"	1 1/4"	
	PENAL-WARE 1449 SERIES ADA 2010 COMPLIANT - LAV/TOILET COMBY - OFFSET TOILET BOWL INSTALLED ON FINISHED WALL. FIXTURE IS SEAMLESS WELDED 14 GAGE, TYPE 304 STAINLESS STEEL AND POLISHED TO A SATIN FINISH. DECK MOUNTED, HARDWIRED SENSOR FAUCET SHALL BE CHROME FINISH., 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL BE TAMPER PROOF AND INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN AND TRUEBRO LAV SHIELD. PROVIDE FAUCET WITH COVER PLATE AND MIXING VALVE.									

PLUMBING SCHEDULE NOTES AND LEGEND:

1. THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
2. SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
3. PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
4. REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.

ADA COMPLIANT
ELECTRICAL POWER
GAS FIRED

PLUMBING FIXTURE SCHEDULE

SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
MR-1	MOP RECEPTOR	KOHLER	6710	FIAT						3"
	FAUCET	STERN WILLIAMS	T-10-VB	CHICAGO	897RCF	MOEN	8124	1/2"	1/2"	
	HOSE	STERN WILLIAMS	T-35	FIAT	832AA					
	MOP BRACKET	STERN WILLIAMS	T-40	FIAT	889CC					
	FLOOR MOUNTED CORNER MOP RECEPTOR SHALL BE 28" x 28", ACID RESISTANT ENAMEL FINISH WITH COATED WIRE GUARD RIM.									
P-1	SUMP PUMP	ZOELLER	940-0007					-	-	-
	ZOELLER OIL SMART SYSTEM INCLUDES: SUMP PUMP, PUMP SWITCH, SENSOR, AND ALARM. SUMP PUMP IS TO BE 1/2 HP, 120 VOLT, SINGLE PHASE, 52 GPM @ 20' HEAD. PROVIDE WITH CHECK VALVE AND DISCONNECT, WIRING BY LICENSED ELECTRICAL CONTRACTOR. PROVIDE WITH ZOELLER OIL SMART PUMP SWITCH, ALARM, AND SENSOR.									
S-1	KITCHEN SINK	JUST	SL-ADA-1921-A-GR	ELKAY	LRAD-2219					
	FAUCET	DELTA	19867LF	KOHLER		MOEN		1/2"	1/2"	
	TRAP	McGUIRE	8902	KOHLER	K8999	ELJER	804-1185			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN				
	SINK IS TO BE 18 GAUGE STAINLESS STEEL, SELF-RIMMING. DECK MOUNTED FAUCET SHALL BE CHROME FINISHED, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIDGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH SPRAYER AND McGUIRE PROWRAP INSULATOR.									
S-2	2-COMPARTMENT SINK	JUST	DL-ADA-1933-A-GR	ELKAY	LRAD-3319					
	FAUCET	DELTA	19867LF	KOHLER		MOEN		1/2"	1/2"	
	TRAP	McGUIRE	8902	KOHLER	K8999	ELJER	804-1185			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN				
	SINK IS TO BE 18 GAUGE STAINLESS STEEL, SELF-RIMMING. DECK MOUNTED FAUCET SHALL BE CHROME FINISHED, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIDGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH DISHWASHER CONNECTION AND DISPOSAL IF REQUIRED BY ARCHITECT. PROVIDE WITH McGUIRE PROWRAP INSULATOR AND SPRAYER NOZZLE WITH SINK.									
S-3	HAND SINK	ADVANCE TABCO	7-PS-40	JUST	LR-3319					
	FAUCET	ADVANCE TABCO	K-59	JUST						
	TRAP	ADVANCE TABCO	7-PS-10	McGUIRE		ELJER				2"
	SUPPLY	McGUIRE	158LK	ELJER	802-0315	KOHLER	K-7601-P	1/2"	1/2"	
	WALL HUNG STAINLESS STEEL HAND SINK WITH SPLASH GUARDS , 4" CENTERS. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. SPLASH MOUNTED FAUCET SHALL BE CHROME FINISH, 4" CENTERS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM,REDUCER AND FLANGE. P-TRAP SHALL BE CHROME PLATED AND PROVIDED WITH FLANGE									
SA-1	SHOCK ABSORBER	JOSAM	ABSORBOTRON SERIES	ZURN	SHOCKTROL SERIES	WADE	SHOCKSTOP SERIES			
	SHOCK ABSORBERS SHALL HAVE A STAINLESS STEEL CASING. FLEXIBLE MECHANICAL BELLOWS. PRESSURIZED INERT GAS CHAMBER AND CERTIFICATION STAMP AS CONFORMING TO STANDARD PDI WH-201 OF THE PLUMBING AND DRAINAGE INSTITUTE.									
SH-1	SHOWER	BY OTHERS								2"
	VALVE AND HEAD	SYMMONS	96-1-151-X-L	POWERS		MOEN		1/2"	1/2"	
	LEVER DIVERTER VALVE	SYMMONS	4-458	POWERS		MOEN				
	HAND SPRAY UNIT	SYMMONS	FSB	POWERS		MOEN				
	DRAIN THROUGH FLOOR DRAIN (FD-1). VALVE TO BE ANTI-SCALD PER NCBC. PROVIDE WITH SEAT, GRAB BARS, AND CURTAIN OR DOOR AS REQUIRED PER ADA REQUIREMENTS.									
WC-1	WATER CLOSET	KOHLER	K-4368	ELJER	111-2145	AMERICAN STANDARD	2305.100			4"
	SEAT	KOHLER	K-4670-C	ELJER	124-0355	CHURCH	9500C			
	VALVE	SLOAN	111	DELANY	F402-1	ZURN	Z6000-WS1	1"	-	
	TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 12" ROUGH-IN AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE, THE FLUSH VALVE MECHANISM SHALL BE PLACED ON THE WIDE SIDE OF THE STALL.									
WC-2	WATER CLOSET	KOHLER	K-4350	ELJER	111-2125	AMERICAN STANDARD	2234.015			4"
	SEAT	KOHLER	K-4670-C	ELJER	124-0355	CHURCH	9500C			
	VALVE	SLOAN	111	DELANY	F402-1	ZURN	Z6000-WS1	1"	-	
	TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 12" ROUGH-IN AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE									
WH-1	WATER HEATER	RINNAI	RU-199eN					3/8"	3/8"	
	EXTERIOR GAS FIRED INSTANTANEOUS WATER HEATER. SHALL HAVE AN INPUT OF 199 MBH AND A DELIVERY OF 6.4 GPM AT 60 DEGREE RISE. PROVIDE WITH AN EXPANSION TANK. WIRING BY LICENSED ELECTRICAL CONTRACTOR.									

PLUMBING SCHEDULE NOTES AND LEGEND:

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2. SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
3. PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
4. REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.

ADA COMPLIANT
ELECTRICAL POWER
GAS FIRED

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North Carolina Design Registration #F-1507

REF. SCALE IN INCHES 0 1 2 3

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 22035 — IMEG CORPORATION No. F-1507

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 22035 — ENGINEER — PAUL E. FELPAUSCH

DKA JOB NUMBER
2418

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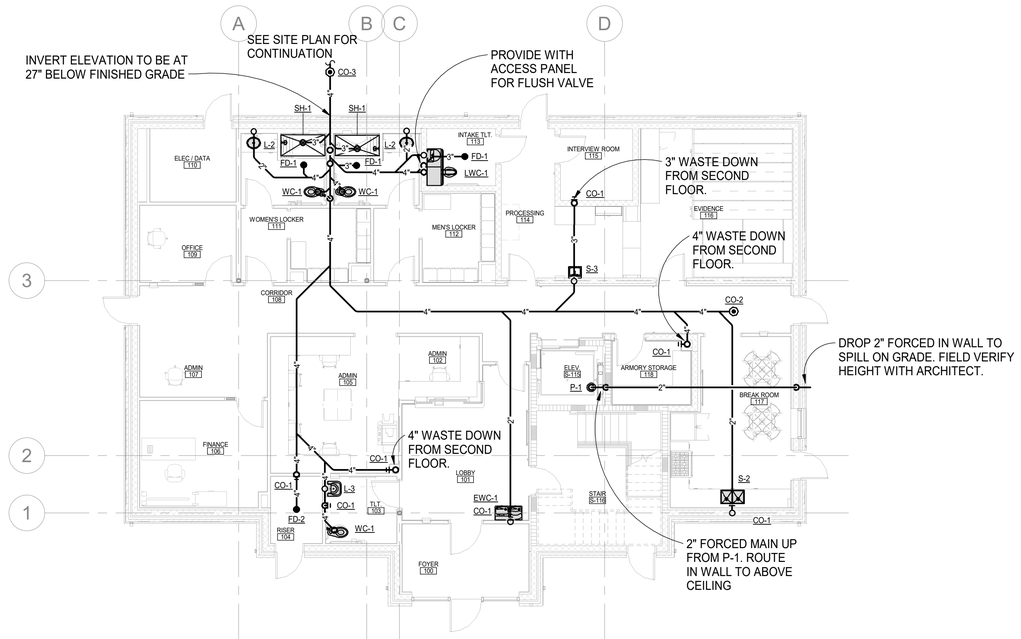
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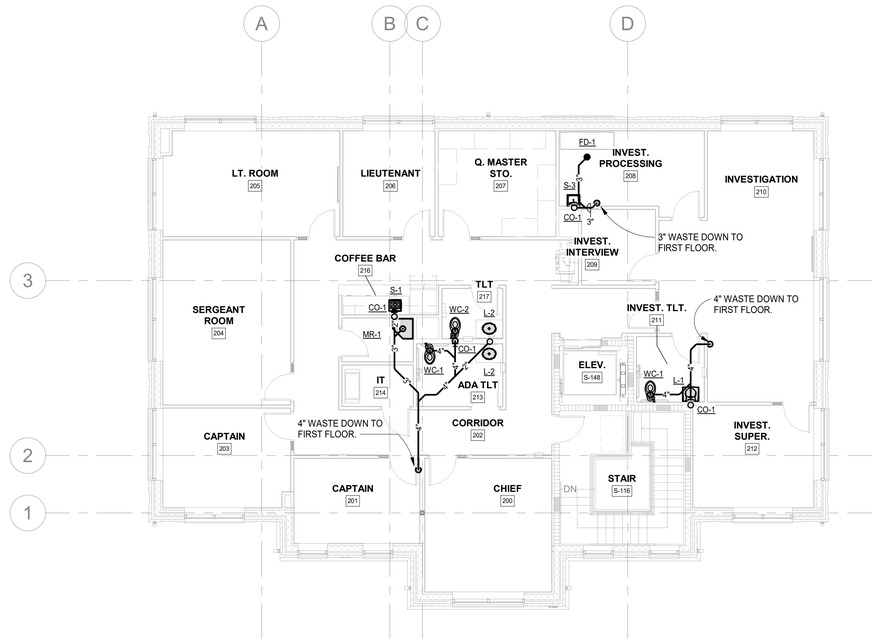
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SHEET TITLE
PLUMBING FIXTURE SCHEDULE

P001



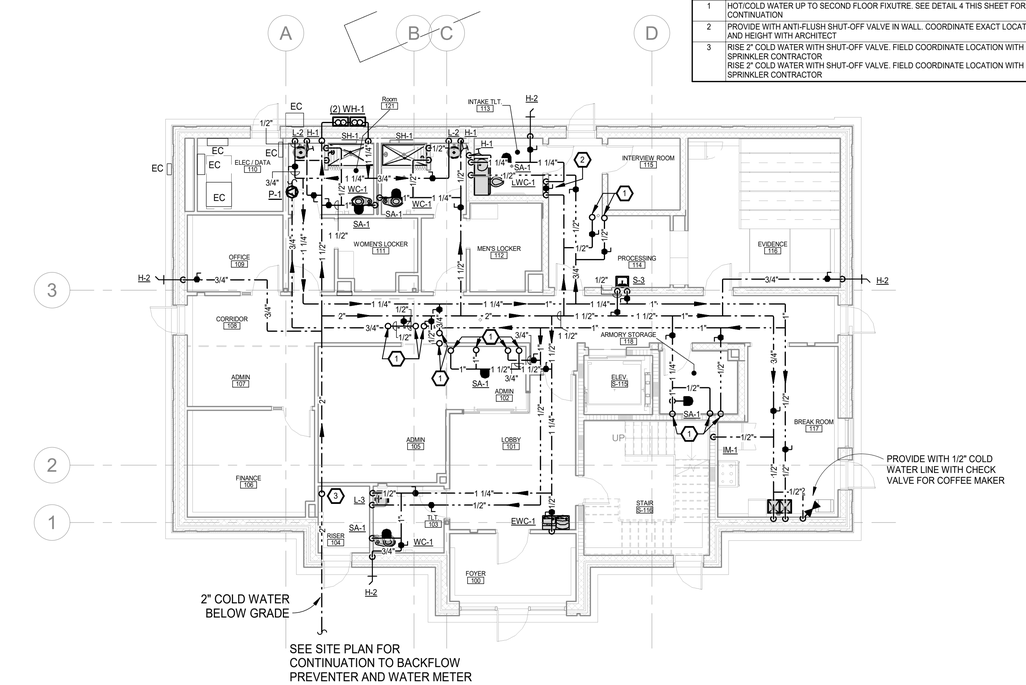
E1 FIRST FLOOR PLUMBING PLAN - WASTE
1/8" = 1'-0"



E5 SECOND FLOOR PLUMBING PLAN - WASTE
1/8" = 1'-0"

A1/P100 KEY NOTES

1	HOT/COLD WATER UP TO SECOND FLOOR FIXUTRE. SEE DETAIL 4 THIS SHEET FOR CONTINUATION
2	PROVIDE WITH ANTI-FLUSH SHUT-OFF VALVE IN WALL. COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT
3	RISE 2" COLD WATER WITH SHUT-OFF VALVE. FIELD COORDINATE LOCATION WITH SPRINKLER CONTRACTOR RISE 2" COLD WATER WITH SHUT-OFF VALVE. FIELD COORDINATE LOCATION WITH SPRINKLER CONTRACTOR



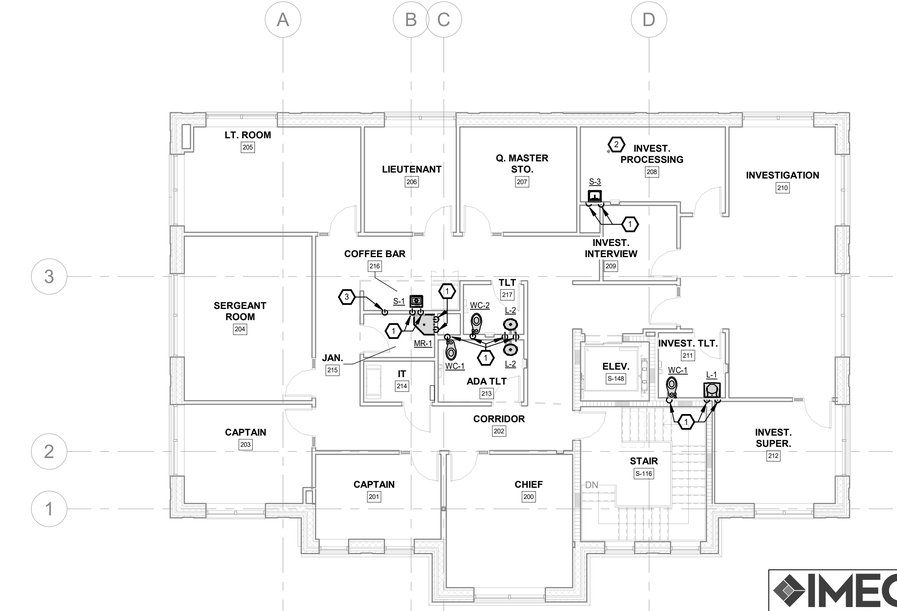
A1 FIRST FLOOR PLUMBING PLAN - WATER
1/8" = 1'-0"

TRADES COORDINATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL AND FIRE ALARM SYSTEMS. PIPE, VALVES, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. SHALL BE ROUTED/INSTALLED SO THAT PROPER MAINTENANCE ACCESS IS UPHELD. WHERE NECESSARY, SYSTEMS ABOVE FINISHED CEILING SHALL BE ROUTED UP IN STRUCTURE TO ALLOW CROSSING OF PIPE, CONDUIT, DUCTWORK, ETC.

A5/P100 KEY NOTES

1	HOT AND COLD WATER UP FROM ABOVE FIRST FLOOR CEILING. SEE DETAIL 3 THIS SHEET FOR CONTINUATION AND SIZE.
2	PROVIDE WITH 1/2" COLD WATER LINE BELOW FINISED FLOOR AND ABOVE FINISHED CEILING FOR TRAP PRIMING OF FLOOR DRAIN.
3	1/2" COLD WATER UP FROM ABOVE FIRST FLOOR CEILING FOR COFFEE MAKER. PROVIDE WITH VACUUM BREAKER.



A5 SECOND FLOOR PLUMBING PLAN - WATER
1/8" = 1'-0"

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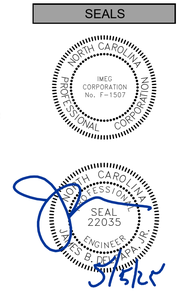
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SHEET TITLE
PLUMBING PLANS

P100

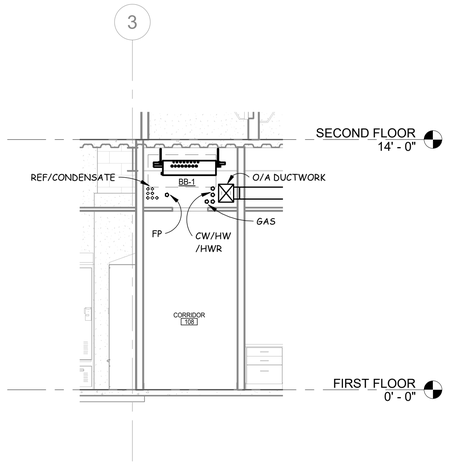
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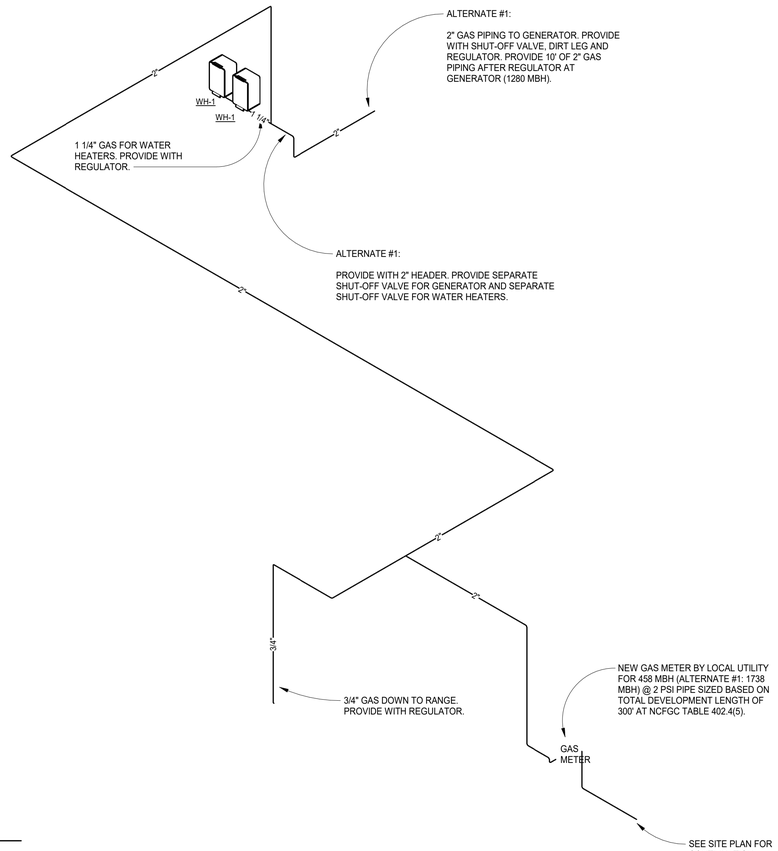
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NOTE:

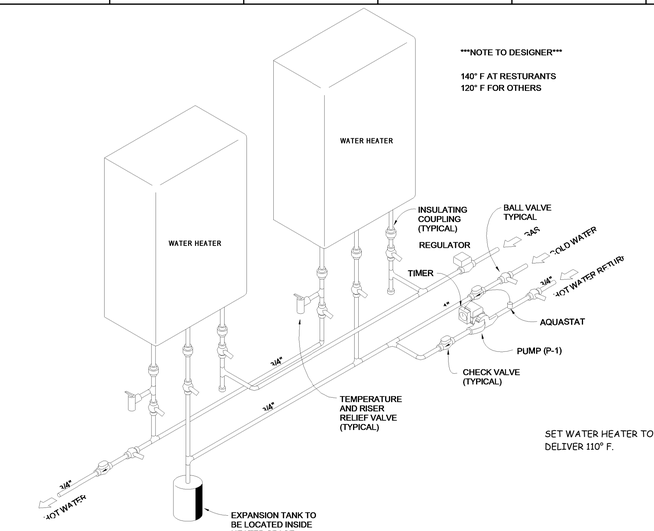
THE INTENT OF THIS SECTION IS TO REPRESENT COORDINATION BETWEEN TRADES ON PIPE AND DUCTWORK ROUTING, AND EQUIPMENT PLACEMENT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD COORDINATE WORK WITH OTHER TRADES TO ENSURE INSTALLATION OF ALL PIPE, VALVES, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. IS DONE SO THAT PROPER MAINTENANCE ACCESS IS UPHELD. WHERE NECESSARY, SYSTEMS ABOVE FINISHED CEILING SHALL BE ROUTED UP IN STRUCTURE TO ALLOW CROSSING OF PIPE, CONDUIT, DUCTWORK, ETC.



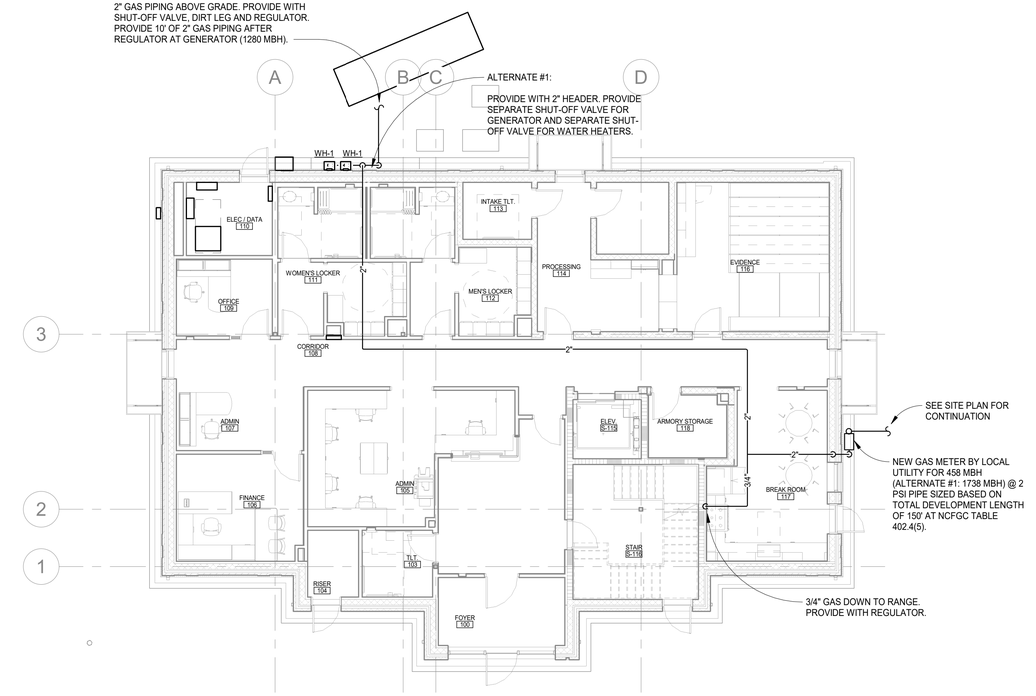
E3 TYPICAL CORRIDOR SECTION
NOT TO SCALE



A1 GAS RISER
NOT TO SCALE



F5 WATER HEATER DETAIL
NOT TO SCALE



A5 FIRST FLOOR PLUMBING PLAN - GAS
1/8" = 1'-0"

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RALEIGH, NC 27605
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ATLANTEC ENGINEERS, PA
from IMEG
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
(919) 571-1111
IMEG# 24146

PROJECT INFORMATION

POLICE HEADQUARTER BUILDING
TOWN OF ANGIER

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL CORPORATION IMEG CORPORATION No. F-1507

NORTH CAROLINA PROFESSIONAL SEAL 22035 ENGINEER JAMES A. DEVEREUX
5/5/25

DKA JOB NUMBER
2418

REVISIONS

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PA: JIMMY ARDEL EDWARDS
PM: JBD
Drawn By: JAD
Plot Date: 5/5/2025 10:14:19 AM

DATE ISSUED

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05/02/25

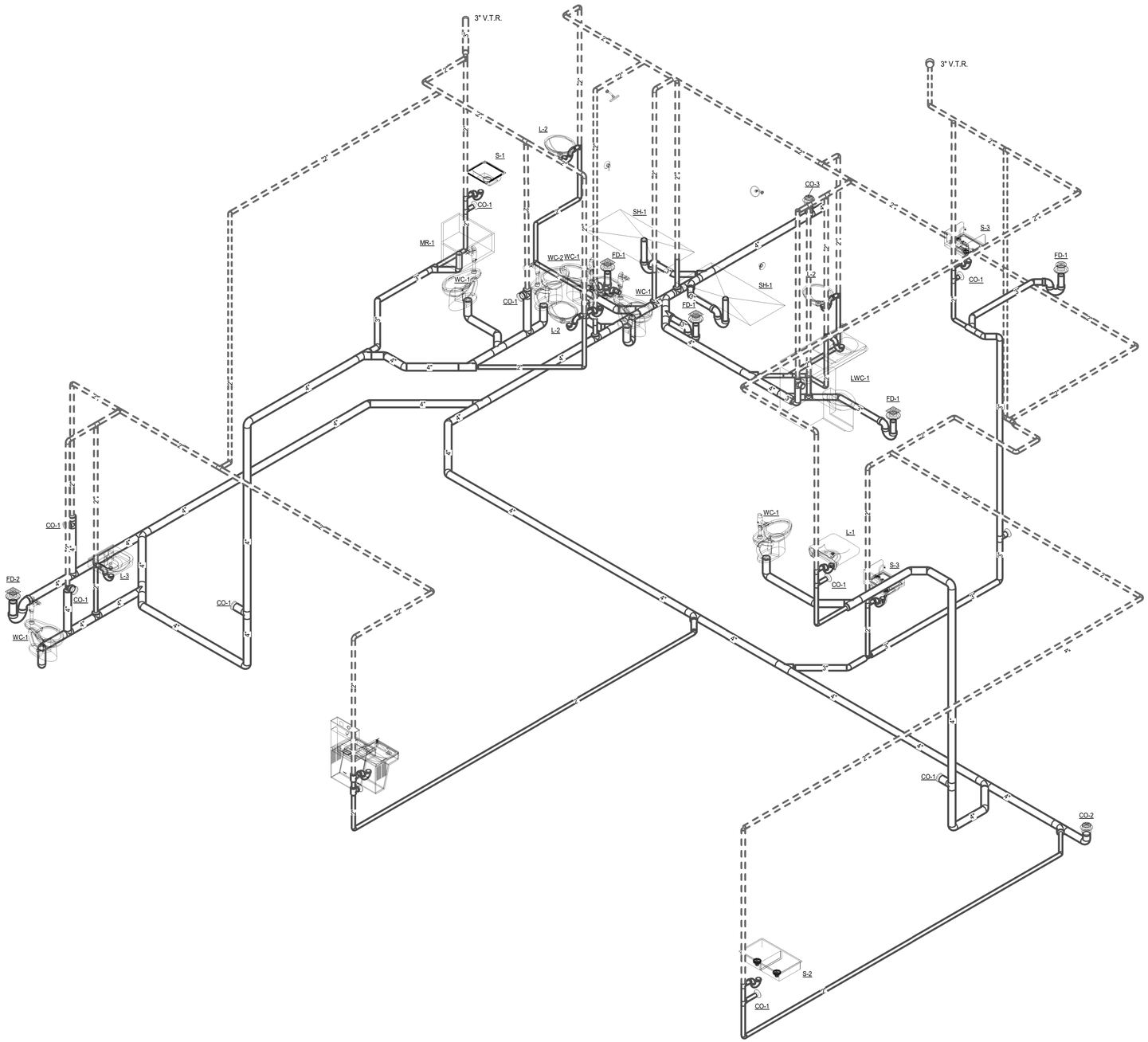
SHEET TITLE
PLUMBING GAS PLAN AND DETAILS CONTINUED

P101

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ALL VENT PIPING IS TO BE 2" UNLESS NOTED OTHERWISE.

NOTE:
V.T.R. IS TO BE ON BACK SIDE OF ROOF RIDGE.

1 WASTE RISER
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NORTH CAROLINA PROFESSIONAL CORPORATION — IMEG CORPORATION No. F-1507

NORTH CAROLINA PROFESSIONAL SEAL 22035 ENGINEER JIMMY ARDEL DELPRADO EDWARDS
5/5/25

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SHEET TITLE
PLUMBING WASTE RISER

P200

OUTDOOR UNIT SCHEDULE

MARK	MAKE	MODEL	COOLING CAPACITY	HEATING CAPACITY	POWER	MCA	MOCP	EER	COP	NOTES
ODU-1	MITSUBISHI	PURY-EP72-TNU-A	72.0 MBH	80.0 MBH	208/3Ø	30.0 A	50 A	11.4	3.76	1-4
ODU-2	MITSUBISHI	PURY-EP72-TNU-A	72.0 MBH	80.0 MBH	208/3Ø	30.0 A	50 A	11.4	3.76	1-4
ODU-3	MITSUBISHI	PUHY-EP96TNU-A	96.0 MBH	108.0 MBH	208/3Ø	44.0 A	50 A	11.9	4.04	1-4

NOTES:

1. PROVIDE WITH HEAVY DUTY FUSIBLE DISCONNECT.
2. PROVIDE WITH HAIL GUARDS.
3. PROVIDE WITH LOW AMBIENT CONTROLS DOWN TO 0° FARENHEIT.
4. CONTROL VIA MITSUBISHI VRF BACNET CENTRAL CONTROLLER LOCATED IN IT 214.

BRANCH BOX SCHEDULE

MARK	MAKE	MODEL	BRANCHES	CONNECTED CAPACITY	POWER	MCA	MOCP	NOTES
BB-1	MITSUBISHI	CMB-P108NU-J2	8	75.0 MBH	208/1Ø	0.7 A	20 A	1-4
BB-2	MITSUBISHI	CMB-P1012NU-J2	12	84.0 MBH	208/1Ø	1.1 A	20 A	1-4

NOTES:

1. PROVIDE WITH HEAVY DUTY FUSIBLE DISCONNECT.
2. PROVIDE WITH CONDENSATE PUMP. SEE PLANS FOR ROUTING.
3. SEE PIPING SCHEMATIC FOR ADDITONAL PIPING DETAILS.
4. CAP UNUSED PORTS AS REQUIRED.

FAN COIL SCHEDULE

MARK	MAKE	MODEL	CFM	E.S.P.	WATTS	COOLING / HEATING CAPACITY	POWER	MCA	MOCP	NOTES
FC-1.1	MITSUBISHI	PEFY-P24NMAU-E4	800 CFM	0.8 in-wg	121	24.0 / 27.0 MBH	208/1Ø	2.9 A	15 A	1-5,8
FC-1.2	MITSUBISHI	PEFY-P08NMAU-E4	300 CFM	0.5 in-wg	85	8.0 / 9.0 MBH	208/1Ø	1.8 A	15 A	1-5,8
FC-1.3	MITSUBISHI	PEFY-P12NMAU-E4	350 CFM	0.5 in-wg	85	12.0 / 13.5 MBH	208/1Ø	2.1 A	15 A	1-5,8
FC-1.4	MITSUBISHI	PEFY-P12NMAU-E4	350 CFM	0.5 in-wg	85	12.0 / 13.5 MBH	208/1Ø	2.1 A	15 A	1-5,8
FC-1.5	MITSUBISHI	PLFY-P05NFMU-E	275 CFM	0.1 in-wg	50	5.0 / 5.6 MBH	208/1Ø	0.2 A	15 A	1-5,7,8
FC-1.6	MITSUBISHI	PEFY-P08NMAU-E4	300 CFM	0.5 in-wg	85	8.0 / 9.0 MBH	208/1Ø	1.8 A	15 A	1-5,8
FC-1.7	MITSUBISHI	PEFY-P12NMAU-E4	350 CFM	0.5 in-wg	85	12.0 / 13.5 MBH	208/1Ø	2.1 A	15 A	1-5,8
FC-1.8	MITSUBISHI	PKFY-P06NLMU-ER1.TH	190 CFM	0.1 in-wg	30	6.0 / 6.7 MBH	208/1Ø	0.2 A	15 A	1,4-6,8
FC-2.1	MITSUBISHI	PEFY-P24NMAU-E4	800 CFM	0.8 in-wg	121	24.0 / 27.0 MBH	208/1Ø	2.9 A	15 A	1-5,8
FC-2.2	MITSUBISHI	PLFY-P05NFMU-E	275 CFM	0.1 in-wg	50	5.0 / 5.6 MBH	208/1Ø	0.2 A	15 A	1-5,7,8
FC-2.3	MITSUBISHI	PLFY-P05NFMU-E	275 CFM	0.1 in-wg	50	5.0 / 5.6 MBH	208/1Ø	0.2 A	15 A	1-5,7,8
FC-2.4	MITSUBISHI	PLFY-P05NFMU-E	275 CFM	0.1 in-wg	50	5.0 / 5.6 MBH	208/1Ø	0.2 A	15 A	1-5,7,8
FC-2.5	MITSUBISHI	PLFY-P05NFMU-E	275 CFM	0.1 in-wg	50	5.0 / 5.6 MBH	208/1Ø	0.2 A	15 A	1-5,7,8
FC-2.6	MITSUBISHI	PLFY-P08NFMU-E	300 CFM	0.1 in-wg	50	8.0 / 9.0 MBH	208/1Ø	0.3 A	15 A	1-5,7,8
FC-2.7	MITSUBISHI	PLFY-P08NFMU-E	300 CFM	0.1 in-wg	50	8.0 / 9.0 MBH	208/1Ø	0.3 A	15 A	1-5,7,8
FC-2.8	MITSUBISHI	PLFY-P05NFMU-E	275 CFM	0.1 in-wg	50	5.0 / 5.6 MBH	208/1Ø	0.2 A	15 A	1-5,7,8
FC-2.9	MITSUBISHI	PLFY-P05NFMU-E	275 CFM	0.1 in-wg	50	5.0 / 5.6 MBH	208/1Ø	0.2 A	15 A	1-5,7,8
FC-2.10	MITSUBISHI	PEFY-P12NMAU-E4	350 CFM	0.5 in-wg	85	12.0 / 13.5 MBH	208/1Ø	2.1 A	15 A	1-5,8
FC-2.11	MITSUBISHI	PKFY-P06NLMU-ER1.TH	190 CFM	0.1 in-wg	30	6.0 / 6.7 MBH	208/1Ø	0.2 A	15 A	1,4-6,8
FC-2.12	MITSUBISHI	PKFY-P06NLMU-ER1.TH	190 CFM	0.1 in-wg	30	6.0 / 6.7 MBH	208/1Ø	0.2 A	15 A	1,4-6,8
FC-3.1	MITSUBISHI	PEFY-P96NMHU-E-OA	1200 CFM	1.0 in-wg	375	96.0 / 57.0 MBH	208/1Ø	4.8 A	15 A	1-5, 8

NOTES:

1. PROVIDE WITH MOTOR RATED SWITCH.
2. CONDENSATE PUMP PROVIDED INTERNAL TO FAN COIL. SEE PLANS FOR ROUTING.
3. SEE OUTSIDE AIR SUMMARY FOR OUTSIDE AIR INTAKE FLOW SETTINGS.
4. PROVIDE WITH PROGRAMMABLE TEMPERATURE SENSOR.
5. CONTROL VIA MITSUBISHI VRF BACNET CENTRAL CONTROLLER LOCATED IN IT 214.
6. PROVIDE WITH CONDENSATE PUMP. SEE PLANS FOR ROUTING.
7. PROVIDE WITH MANUFACTURE'S GRILLE AND AIR INTAKE FILTER.
8. PROVIDE WITH MANUFACTURE'S FILTER BOX AND 2" MERV-13 FILTER.

UNIT HEATER SCHEDULE

MARK	MAKE	MODEL	CFM	CAPACITY	kW	AMPS	POWER	NOTES
UH-1	QMARK	CWH1101DSAF	65 CFM	3.4 MBH	1.0	8 A	120/1Ø	1-3

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH INTEGRAL THERMOSTAT.
3. PROVIDE WITH SURFACE MOUNTING KIT.

EXHAUST FAN SCHEDULE

MARK	MAKE	MODEL	SERVICE	TYPE	CFM	RPM	HP/WATTS	S.P.	POWER	NOTES
EF-1.1	COOK	90SQN-D	LOCKER, TLT	INLINE, DIRECT	400 CFM	1443	1/6 HP	0.25 in-wg	120/1Ø	1-3,6
EF-1.2	COOK	90SQN-D	EVIDENCE	INLINE, DIRECT	425 CFM	1485	1/6 HP	0.25 in-wg	120/1Ø	1,2,5,6
EF-1.3	COOK	GC-128	TOILET	CABINET FAN	50 CFM	591	23 W	0.15 in-wg	120/1Ø	1-3,6
EF-2.1	COOK	90SQN-D	TLT, JANITOR	INLINE, DIRECT	200 CFM	1200	1/6 HP	0.33 in-wg	120/1Ø	1-3,6
EF-2.2	COOK	GC-148	INTAKE PROCESS	CABINET FAN	125 CFM	914	39 W	0.15 in-wg	120/1Ø	1,2,4,6
EF-2.3	COOK	GC-148	IT	CABINET FAN	100 CFM	942	39 W	0.33 in-wg	120/1Ø	1,2,6,7

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH BACKDRAFT DAMPER.
3. CONTROL VIA TIMECLOCK LOCATED IN IT 218. FAN SHALL RUN CONTINUOSLY WHILE BUILDING IS OCCUPIED.
4. CONTROL VIA WALL MOUNTED SWITCH BY E.C.
5. FAN TO RUN CONTINUOUSLY.
6. PROVIDE WITH FAN SPEED CONTROLLER.
7. CONTROL VIA WALL MOUNTED THERMOSTAT.

LOUVER SCHEDULE

MARK	MAKE	MODEL	SERVICE	MAX CFM	WIDTH	HEIGHT	FREE AREA	NOTES
L-1	POTTORFF	EFD-445	EXHAUST	300 CFM	12"	16"	0.4 SQFT	1-3
L-2	POTTORFF	EFD-445	EXHAUST	425 CFM	16"	16"	0.6 SQFT	1-3
L-3	POTTORFF	EFD-445	EXHAUST	200 CFM	12"	12"	0.3 SQFT	1-3
L-4	POTTORFF	EFD-445	OUTSIDE AIR	1200 CFM	24"	24"	1.6 SQFT	1-3
L-5	POTTORFF	EFD-445	EXHAUST	50 CFM	8"	8"	0.1 SQFT	1-3

NOTES:

1. COORDINATE COLOR AND FINISH WITH ARCHITECT.
2. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
3. PROVIDE WITH BIRD SCREEN AND WALL SLEEVE.

GRILLE & DIFFUSER SCHEDULE

MARK	MAKE	MODEL	SERVICE	TYPE	MAX FLOW	FACE SIZE	NECK SIZE	NOTES
EA-6	PRICE	530	EXHAUST	LOUVERED LAY-IN	100 CFM	24x24	6"Ø	1-3
EA-12	PRICE	530	EXHAUST	LOUVERED LAY-IN	600 CFM	24x24	12"Ø	1-3
EG-6	PRICE	530	EXHAUST	SURFACE MOUNT	100 CFM	6x6	6"Ø	1-4
ES-6	PRICE	MSRRP	EXHAUST	SECURITY GRILLE	100 CFM	6x6	6"Ø	1,3-5
RA-6	PRICE	530	RETURN	LOUVERED LAY-IN	100 CFM	24x24	6"Ø	1-3
RA-8	PRICE	530	RETURN	LOUVERED LAY-IN	200 CFM	24x24	8"Ø	1-3
RA-10	PRICE	530	RETURN	LOUVERED LAY-IN	300 CFM	24x24	10"Ø	1-3
RA-14	PRICE	530	RETURN	LOUVERED LAY-IN	1000 CFM	24x24	14"Ø	1-3
RB-6	PRICE	530	RETURN	SURFACE MOUNT	100 CFM	8x8	6"Ø	1-4
RS-6	PRICE	MSRRP	RETURN	SECURITY GRILLE	200 CFM	10x10	6"Ø	1,3-5
SD-6	PRICE	SCD 4-CONE	SUPPLY	LOUVERED LAY-IN	100 CFM	24x24	6"Ø	1-3
SD-8	PRICE	SCD 4-CONE	SUPPLY	LOUVERED LAY-IN	200 CFM	24x24	8"Ø	1-3
SG-6	PRICE	SMD	SUPPLY	SURFACE MOUNT	100 CFM	8x8	6"Ø	1-4
SG-8	PRICE	SMD	SUPPLY	SURFACE MOUNT	200 CFM	10x10	8"Ø	1-4
SL-6	PRICE	TBD - 1" WIDTH	SUPPLY	LINEAR SLOT	100 CFM	24" - 1 SLOT	6"Ø	1,3
SL-8	PRICE	TBD - 1" WIDTH	SUPPLY	LINEAR SLOT	200 CFM	48" - 1 SLOT	8"Ø	1,3
SS-6	PRICE	MSRRCD	SUPPLY	SECURITY GRILLE	100 CFM	24x24	6"Ø	1,3-5

NOTES:

1. COORDINATE FINISH WITH ARCHITECT.
2. GRILLE TO HAVE FULLY LOUVERED FACE.
3. PROVIDE WITH INSULATED SHEET METAL PLENUM.
4. FRAME FOR SURFACE MOUNTING.
5. GRILLE SHALL BE ANTI-LIGATURE CONSTRUCTION.

BUILDING PRESSURE SUMMARY

REQUIRED OUTSIDE AIR:

OFFICE AREA: 5,797 SQFT * 0.06 CFM/SQFT + 5 CFM/PER * 17 PER = 538 CFM

PROVIDED OUTSIDE AIR:

FC-1.1: 250 CFM
FC-1.2: 90 CFM
FC-1.3: 130 CFM
FC-1.4: 170 CFM
FC-1.5: 40 CFM
FC-1.6: 90 CFM
FC-1.7: 130 CFM

FIRST FLOOR: 900 CFM

FC-2.1: 70 CFM
FC-2.2: 20 CFM
FC-2.3: 20 CFM
FC-2.4: 20 CFM
FC-2.5: 20 CFM
FC-2.6: 20 CFM
FC-2.7: 20 CFM
FC-2.8: 20 CFM
FC-2.9: 20 CFM
FC-2.10: 70 CFM

SECOND FLOOR: 300 CFM

TOTAL OUTSIDE AIR PROVIDED = 1200 CFM

REQUIRED EXHAUST AIR:

LOCKER ROOMS: 2 FIXT. * 50 CFM/FIXT. + 2 SHWR * 20 CFM/SHWR + 235 SQFT * 0.25 CFM/SQFT = 199 CFM

1ST FLOOR TLTS: 2 FIXT. * 50 CFM/FIXT. = 100 CFM

2ND FLOOR TLTS: 2 FIXT. * 50 CFM/FIXT. = 100 CFM

INVEST. TLT: 1 FIXT. * 50 CFM/FIXT. = 50 CFM

TOTAL REQUIRED: 449 CFM

PROVIDED EXHAUST AIR:

LOCKER ROOMS: 350 CFM (EF-1.1)
1ST FLOOR TLTS: 100 CFM (EF-1.1) (EF-1.3)
EVIDENCE: 425 CFM (EF-1.2) (8 AIR CHANGES)
2ND FLOOR TLTS/JAN: 150 CFM (EF-2.1)
INVEST. TLT: 50 CFM (EF-2.1)
INVEST. PROCESSING: 125 CFM (EF-2.1) (5 AIR CHANGES)
IT ROOM: 100 CFM (EF-2.3)

TOTAL EXHAUST PROVIDED = 1300 CFM

*** BUILDING IS 100 CFM NEGATIVE (MAX EXHAUST) ***
*** BUILDING IS 125 CFM POSITIVE (CONTINUOUS EXHAUST) ***

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SHEET METAL DUCT
	FLEXIBLE DUCT
	SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM
	RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	EXHAUST GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
T	THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR
BD	BALANCING DAMPER
	ELBOW WITH TURNING VANES
S	TEMPERATURE SENSOR - MOUNTED 48" ABOVE FINISHED FLOOR
C	CONDENSATE DRAIN
	PIPING TURNED DOWN
	PIPING TURNED UP
	PIPING SIDE CONNECTION
	REFRIGERANT PIPING

RATED ASSEMBLIES LEGEND

1-HR RATED FIRE BARRIER

TRADES COORDINATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSTALLATION OF ALL PIPE, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. NECESSARY FOR COMPLETE AND OPERATIONAL PLUMBING, MECHANICAL, FIRE PROTECTION, ELECTRICAL AND FIRE ALARM SYSTEMS. PIPE, VALVES, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. SHALL BE ROUTED/INSTALLED SO THAT PROPER MAINTENANCE ACCESS IS UPHELD. WHERE NECESSARY, SYSTEMS ABOVE FINISHED CEILING SHALL BE ROUTED UP IN STRUCTURE TO ALLOW CROSSING OF PIPE, CONDUIT, DUCTWORK, ETC.

CONTROL NOTES

1. THE VRF SYSTEM SHALL BE MASTER CONTROLLED THROUGH A CENTRAL CONTROLLER LOCATED IN IT 214. THE CENTRAL CONTROLLER SHALL COMMUNICATE WITH INDOOR UNITS AND OUTDOOR UNITS. THE CENTRAL CONTROLLER SHALL HAVE TOUCH SCREEN INTERFACE, AND BE REMOTE ACCESIBLE VIA WEB BROWSER.
2. ALL CONTROL WIRING SHALL BE ROUTED IN CONDUIT WHERE EXPOSED OR CONCEALED IN WALLS. WIRING ROUTED ABOVE CEILING MAY BE PLENUM RATED AND STRAPPED TO PIPE OR STRUCTURE. PROVIDE YELLOW MARKING ON CONTROL WIRING/CONDUIT EVERY 15FT ABOVE CEILINGS.
3. J-BOX COVERS ABOVE CEILING SHALL BE PAINTED YELLOW WITH TYPE WRITTEN "BAS" LABEL.
4. ALL LOCAL ZONE CONTROLLERS SHALL BE HARD WIRED AND SHALL HAVE 2-HR PUSH-BUTTON OVERRIDE, AUTO-CHANGEOVER, 10-HR BATTERY BACKUP, TEMPERATURE DISPLAY, OCCUPANCY SENSOR, AND SETPOINT ADJUSTMENT.
5. THE CONTRACTOR SHALL PROVIDE OWNER TRAINING AT COMPLETION OF THE PROJECT.
6. SEE SHEET M300 FOR ADDITIONAL CONTROL DETAILS.

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M.C).
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M.C. SHALL COORDINATE ALL OF THEIR WORK WITH ALL OTHER CONTRACTORS.
4. THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT. THE M.C. SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO THEIR EQUIPMENT.
7. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS.
8. INSTALL TURNING VANES IN ALL DUCTS AT ELBOWS. PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
9. ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
10. THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER THEIR CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
11. THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM THEIR WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF THEIR WORK. THEY SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN THEIR CONTRACT.
12. FLEXIBLE DUCT RUNOUTS SHALL BE A MAXIMUM OF 10'-0".
13. ALL FLEXIBLE DUCT RUNOUTS SHALL INCLUDE INSULATED DAMPERED BOOTS AT THE POINT OF CONNECTION WITH RECTANGULAR DUCT. PROVIDE ALL FLEXIBLE DUCTWORK WITH FOIL-BACKED, EXTERNALLY WRAPPED INSULATION FOR A MINIMUM OF R-8.
14. ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. EXTERNALLY WRAP ALL DUCT WITH 3" FOIL-BACKED INSULATION FOR A MINIMUM OF R-8.
15. MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO INCLUDE FAN DRIVE CHANGES. INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- 10% OF THE DESIGN VALUES LISTED ON THESE PLANS.
16. CONTRACTOR SHALL PROVIDE TESTING OF ALL FIRE DAMPERS PRIOR TO SUBSTANTIAL COMPLETION. ENGINEER SHALL WITNESS TESTING OF FIRE DAMPER BY CONTRACTOR. CONTRACTOR SHALL SHUT ALL DAMPERS AND REOPEN TO ENSURE ALL DAMPERS ARE CAPABLE OF CLOSING. CONTRACTOR SHALL PROVIDE ACCESS DOORS AS REQUIRED TO ACCESS DAMPER FOR TESTING.
17. THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
18. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
19. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF DUCT SHOP DRAWINGS FOR APPROVAL.
20. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
21. PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS.
22. LABEL CEILING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING. WITH EQUIPMENT IDENTIFIER. ALSO LABEL ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

PRESCRIPTIVE ☒ ENERGY COST BUDGET ☐

THERMAL ZONE 4A

EXTERIOR DESIGN CONDITIONS
winter dry bulb: 24° F
summer dry bulb: 93° F
relative humidity: 44%

INTERIOR DESIGN CONDITIONS
winter dry bulb: 70° F
summer dry bulb: 74° F
relative humidity: 50%

BUILDING HEATING LOAD: BLOCK LOAD = 116.6 MBH

BUILDING COOLING LOAD: BLOCK LOAD = 138.0 MBH (11.5 TONS)

MECHANICAL SPACING CONDITIONING SYSTEM

Unitary:
description of unit:
heating efficiency:
cooling efficiency:
heat output of unit:
cooling output of unit:
} SEE SCHEDULES ON THIS SHEET

Boiler:
total boiler capacity. If oversized state reason.

Chiller:
total chiller capacity. If oversized state reason.

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON THIS SHEET

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)
motor horsepower:
number of phases:
minimum efficiency:
motor type:
# of poles:
} SEE SCHEDULES ON THIS SHEET

DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code,

SIGNED: Patrick McCabe

NAME: Patrick J. McCabe, PE

TITLE: Professional Engineer

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North Carolina Design Registration #F-1507

0 1 2 3
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PROJECT INFORMATION

POLICE HEADQUARTER BUILDING

TOWN OF ANGIER

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL IMEG CORPORATION No. F-1507 CORPORATE

5/2/25
NORTH CAROLINA PROFESSIONAL SEAL 051195 ENGINEER PATRICK J. MCCABE

DKA JOB NUMBER
2418

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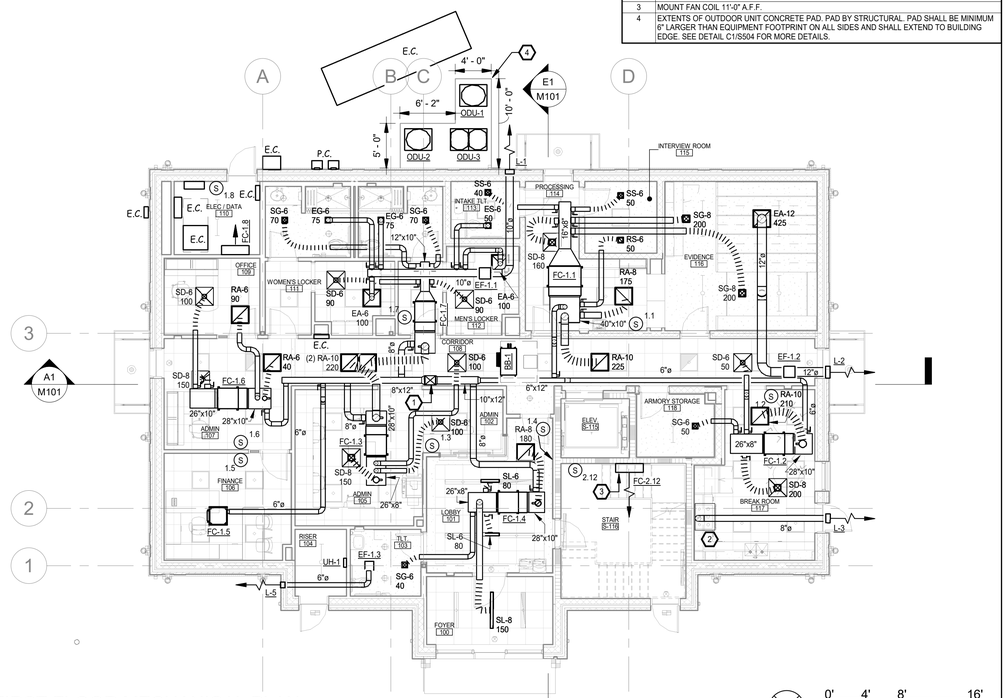
SHEET TITLE

MECHANICAL NOTES, LEGENDS, & SCHEDULES

M000

E1/M100 KEY NOTES

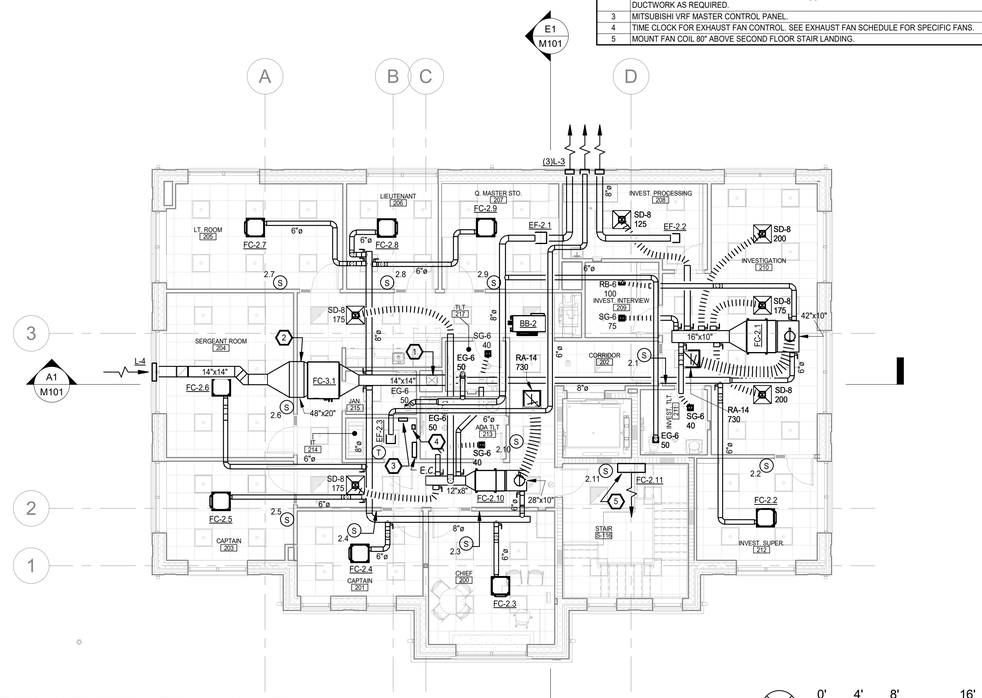
1	14x12 OUTSIDE AIR DUCT DOWN FROM SECOND FLOOR. SEE E5/M100 FOR CONTINUATION.
2	DUCTED RANGE HOOD BY G.C., PROVIDE 8"Ø EXHAUST DUCT AND ROUTE TO EXTERIOR.
3	MOUNT FAN COIL 11'-0" A.F.F.
4	EXTENTS OF OUTDOOR UNIT CONCRETE PAD. PAD BY STRUCTURAL. PAD SHALL BE MINIMUM 6" LARGER THAN EQUIPMENT FOOTPRINT ON ALL SIDES AND SHALL EXTEND TO BUILDING EDGE. SEE DETAIL C1/S504 FOR MORE DETAILS.



E1 FIRST FLOOR MECHANICAL PLAN
1/8" = 1'-0"

E5/M100 KEY NOTES

1	14x12 OUTSIDE AIR DUCT DOWN TO FIRST FLOOR A.F.C. SEE E1/M100 FOR CONTINUATION.
2	PROVIDE MITSUBISHI FBHQ24 FILTER BOX WITH (2) 24"x20"x2" MERV-13 FILTERS. TRANSITION DUCTWORK AS REQUIRED.
3	MITSUBISHI VRF MASTER CONTROL PANEL.
4	TIME CLOCK FOR EXHAUST FAN CONTROL. SEE EXHAUST FAN SCHEDULE FOR SPECIFIC FANS.
5	MOUNT FAN COIL 80" ABOVE SECOND FLOOR STAIR LANDING.

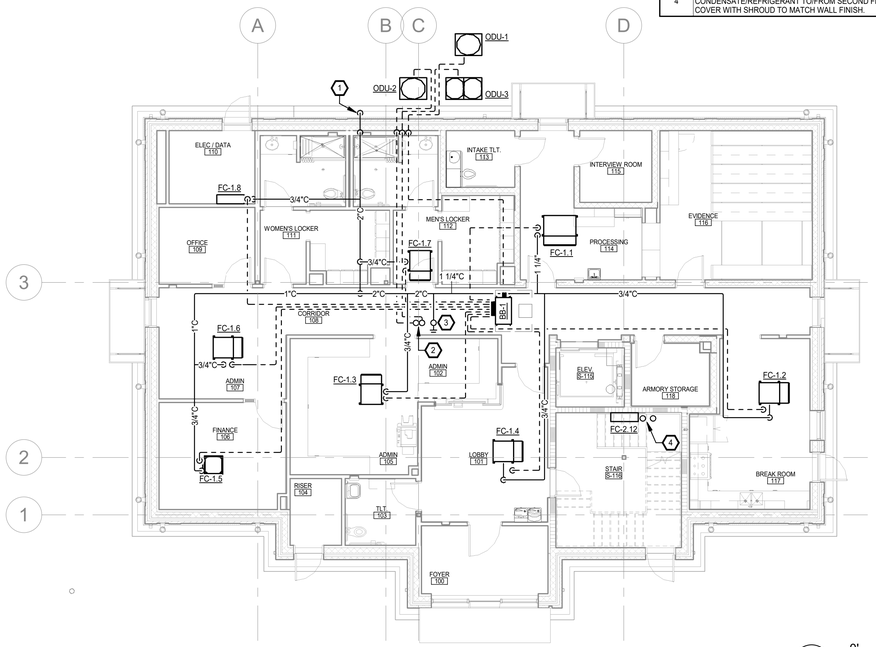


E5 SECOND FLOOR MECHANICAL PLAN
1/8" = 1'-0"

NOTE:
REFRIGERANT AND CONDENSATE PIPE IS SHOWN FOR GENERAL PIPE ROUTING PATH. CONTRACTOR SHALL FIELD VERIFY ROUTING PATH AND NOTIFY THE ENGINEER WHERE CONFLICTS MAY OCCUR. WHERE ABLE, PIPE SHALL BE ROUTED TIGHT TO ADJACENT WALLS AND STRUCTURE TO MINIMIZE OBSTRUCTION ABOVE FINSIHED CEILING. COORDINATE WORK WITH OTHER TRADES.

A1/M100 KEY NOTES

1	2" CONDENSATE OUT OF BUILDING 12" A.F.F. PROVIDE WITH ELBOW DOWN AND TERMINATE 6" A.F.G. AND DISCHARGE INTO STORM DRAIN BY SITE CONTRACTOR. COORDINATE FINAL TERMINATION LOCATION WITH SITE CONTRACTOR.
2	REFRIGERANT PIPE TO/FROM SECOND FLOOR A.F.C.
3	1 1/2" CONDENSATE DOWN FROM SECOND FLOOR A.F.C. PROVIDE WITH CLEANOUT AT BOTTOM OF STACK.
4	CONDENSATE/REFRIGERANT TO/FROM SECOND FLOOR A.F.C. ROUTE TIGHT TO WALL AND COVER WITH SHROUD TO MATCH WALL FINISH.

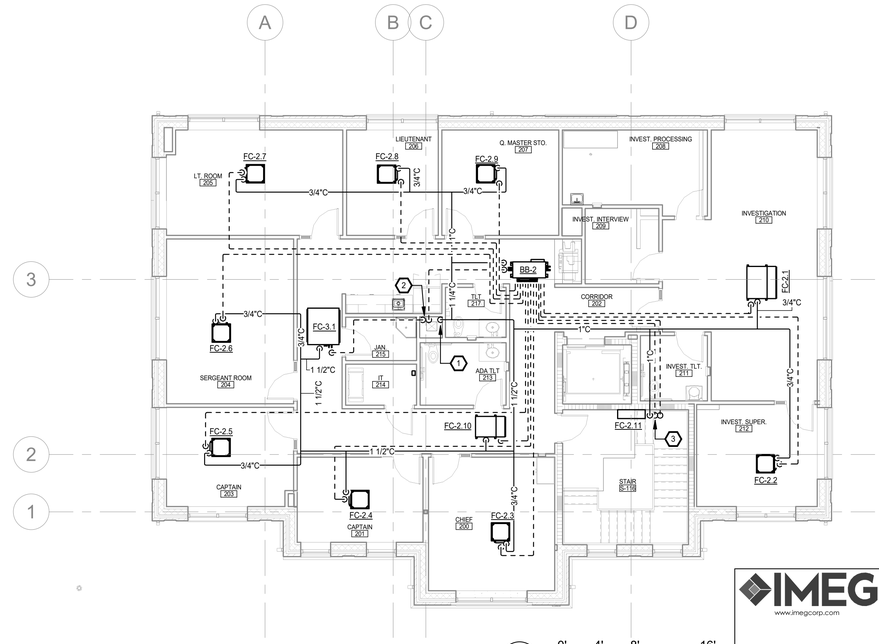


A1 FIRST FLOOR MECHANICAL PIPING PLAN
1/8" = 1'-0"

NOTE:
REFRIGERANT AND CONDENSATE PIPE IS SHOWN FOR GENERAL PIPE ROUTING PATH. CONTRACTOR SHALL FIELD VERIFY ROUTING PATH AND NOTIFY THE ENGINEER WHERE CONFLICTS MAY OCCUR. WHERE ABLE, PIPE SHALL BE ROUTED TIGHT TO ADJACENT WALLS AND STRUCTURE TO MINIMIZE OBSTRUCTION ABOVE FINSIHED CEILING. COORDINATE WORK WITH OTHER TRADES.

A5/M100 KEY NOTES

1	ROUTE 1 1/2" CONDENSATE DOWN TO FIRST FLOOR A.F.C. SEE DETAIL A1/M100 FOR CONTINUATION.
2	REFRIGERANT PIPE TO/FROM FIRST FLOOR A.F.C.
3	CONDENSATE/REFRIGERANT TO/FROM FC-2.11 AND 2.12. ROUTE TIGHT TO WALL AND COVER WITH SHROUD TO MATCH WALL FINISH.



A5 SECOND FLOOR MECHANICAL PIPING PLAN
1/8" = 1'-0"

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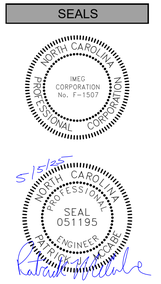
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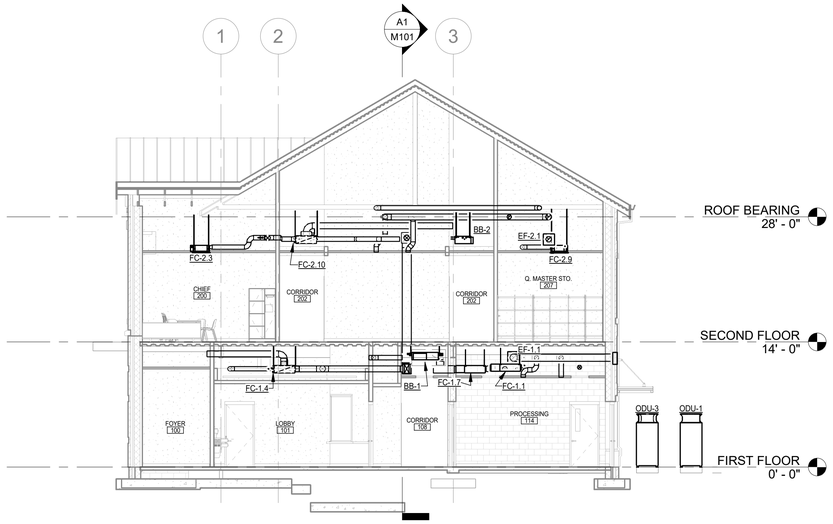
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SHEET TITLE
MECHANICAL PLANS

M100

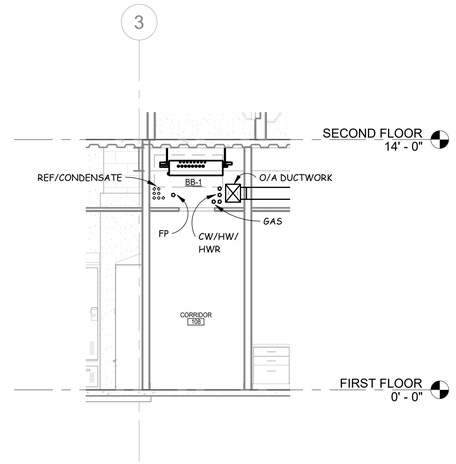


E1 MECHANICAL SECTION - SOUTH EAST
1/8" = 1'-0"

0' 4' 8' 16'

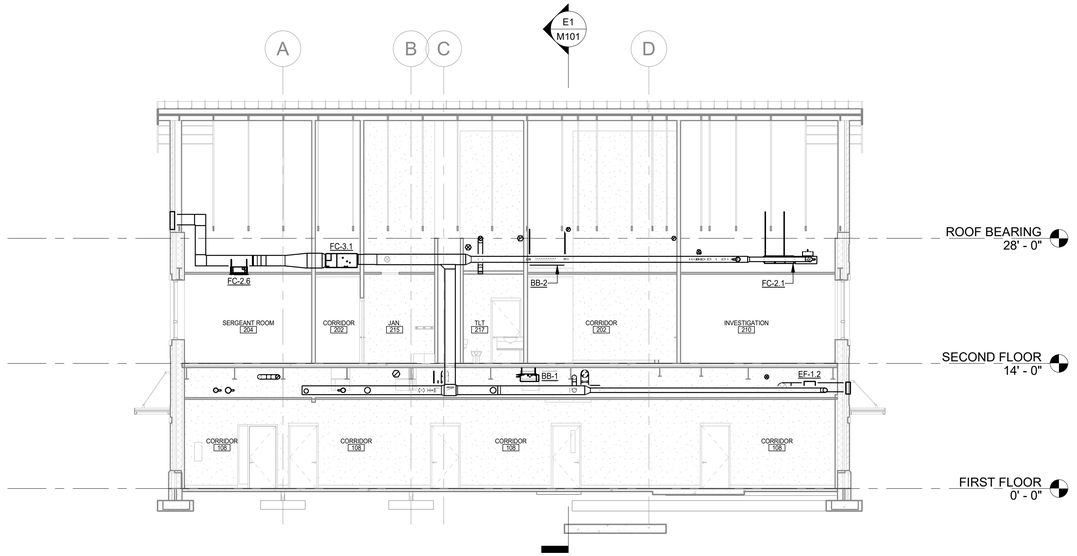
NOTE:

THE INTENT OF THIS SECTION IS TO REPRESENT COORDINATION BETWEEN TRADES ON PIPE AND DUCTWORK ROUTING, AND EQUIPMENT PLACEMENT. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD COORDINATE WORK WITH OTHER TRADES TO ENSURE INSTALLATION OF ALL PIPE, VALVES, DUCT, EQUIPMENT, CONDUIT, HANGERS, ETC. IS DONE SO THAT PROPER MAINTENANCE ACCESS IS UPHELD. WHERE NECESSARY, SYSTEMS ABOVE FINISHED CEILING SHALL BE ROUTED UP IN STRUCTURE TO ALLOW CROSSING OF PIPE, CONDUIT, DUCTWORK, ETC.



E6 TYPICAL COORIDOR SECTION
1/4" = 1'-0"

0' 2' 4' 8'



A1 MECHANICAL SECTION - SOUTHWEST
1/8" = 1'-0"

0' 4' 8' 16'

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IMEG CORPORATION
No. F-1507

5/2/25
NORTH CAROLINA PROFESSIONAL SEAL 051195 ENGINEER PATRICK J. MULLEN
Patrick Mullen

DKA JOB NUMBER
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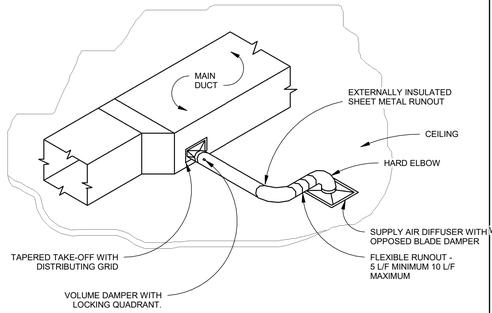
SHEET TITLE
MECHANICAL SECTIONS

M101

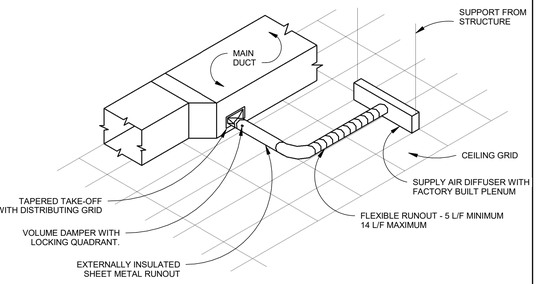
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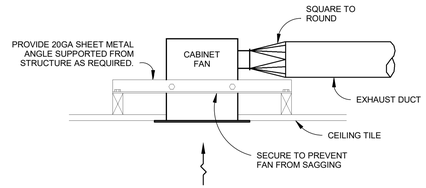
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PROJECT# 24146



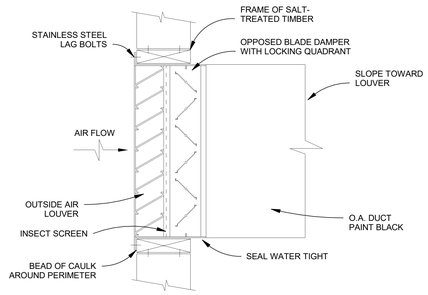
F1 HARD CEILING SUPPLY DETAIL
NOT TO SCALE



F3 SLOT DIFFUSER DETAIL
NOT TO SCALE

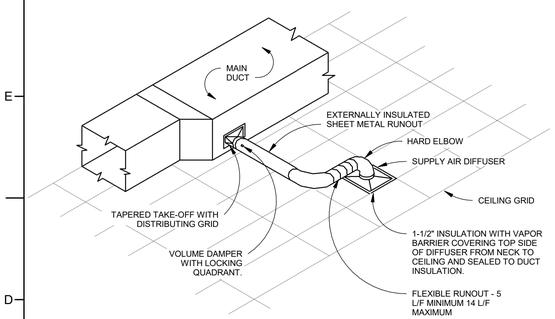


F5 HARD CEILING CABINET DETAIL
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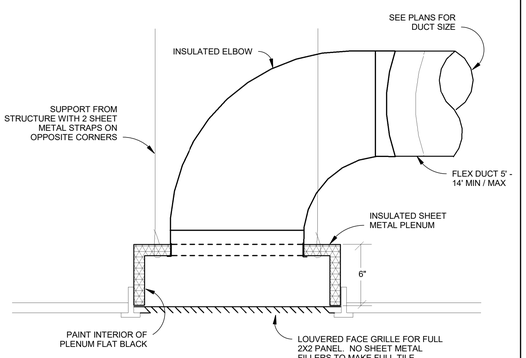


NOTE: OPENING AND FRAME PROVIDED BY THE G.C.

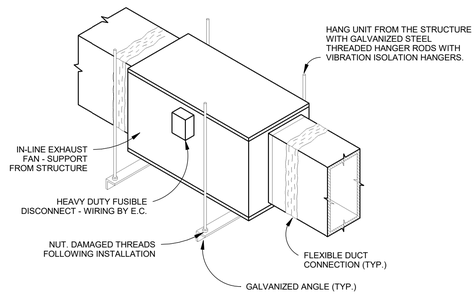
F7 INTAKE LOUVER DETAIL
NOT TO SCALE



C1 LAY-IN SUPPLY DETAIL
NOT TO SCALE

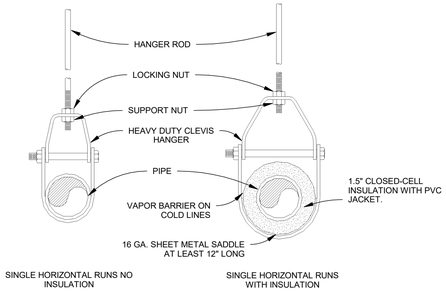


C3 LAY IN RETURN DETAIL
NOT TO SCALE

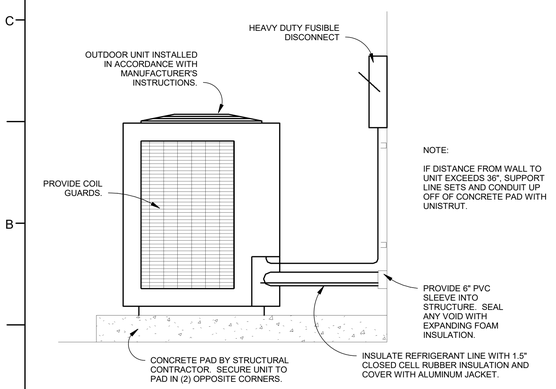


C5 IN-LINE DIRECT DRIVE FAN DETAIL
NOT TO SCALE

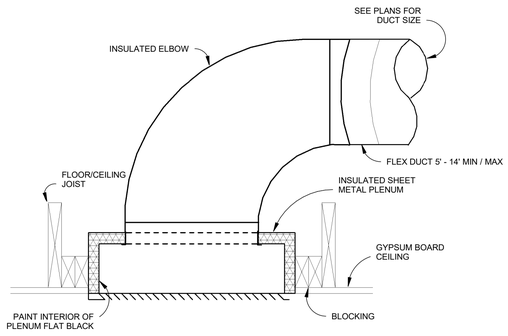
SUPPORT SPACING	
AQUATHERM BLUE PIPE SDR-9 & SDR-11	SPACING
1/2"-3/4"	4'-0"
1"-1 1/2"	4'-0"
2"-2 1/2"	5'-0"
3" & UP	6'-0"
VERTICAL PIPING	10'-0"



C7 SADDLE HANGER DETAIL
NOT TO SCALE



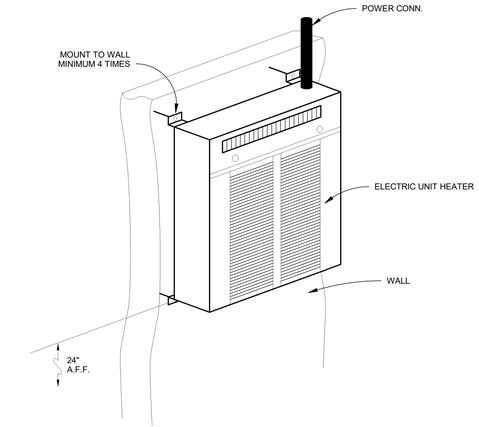
A1 OUTDOOR UNIT DETAIL
NOT TO SCALE



NOTE:

COORDINATE WITH STRUCTURAL ENGINEER BEFORE DRILLING HOLED IN JOISTS OR STRUCTURAL MEMBERS.

A3 HARD CEILING RETURN DETAIL
NOT TO SCALE



A5 UNIT HTR DETAIL
NOT TO SCALE

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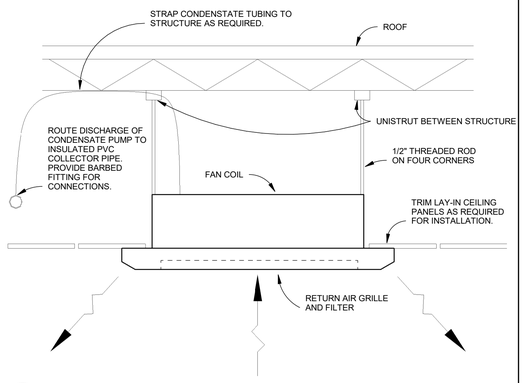
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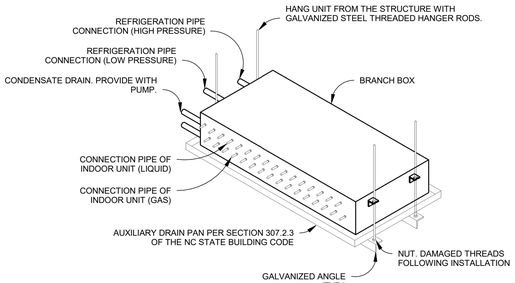
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SHEET TITLE
MECHANICAL DETAILS

M200



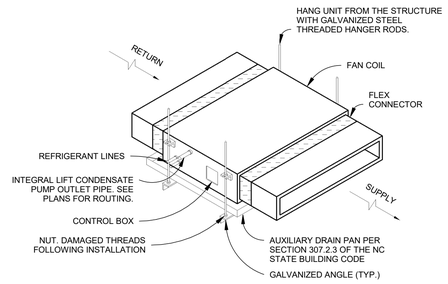
F1 CASSETTE UNIT DETAIL
NOT TO SCALE



NOTE:

PROVIDE WITH OVERFLOW FLOAT SWITCH. THE M.C. SHALL WIRE TO SHUT DOWN FAN.

C1 BRANCH BOX DETAIL
NOT TO SCALE

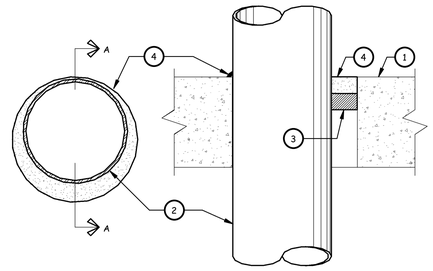


NOTE:

PROVIDE WITH OVERFLOW FLOAT SWITCH. THE M.C. SHALL WIRE TO SHUT DOWN UNIT.

A1 FAN COIL UNIT DETAIL
NOT TO SCALE

SYSTEM NO. CAJ1001
F RATING - 3 HOUR
T RATING - 0 HOUR



SECTION A - A

1 FLOOR OR WALL ASSEMBLY - MINIMUM 4 1/2" THICK LIGHTWEIGHT OR NORMAL WEIGHT (100 - 150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAXIMUM DIAMETER OF CIRCULAR THROUGH OPENING IS 22 1/2".
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES MANUFACTURERS.

1A STEEL SLEEVE (OPTIONAL, NOT SHOWN) - NOMINAL 12" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAXIMUM 2" FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.

2 THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT, OR TUBING AND PERIPHERY OF OPENING SHALL BE MINIMUM OF 0" (POINT CONTACT) TO MAXIMUM 1 3/8" PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOMINAL 30" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

A1. IRON PIPE - NOMINAL 30" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.

B. CONDUIT - NOMINAL 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT.

C. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

3 PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOMINAL 1" THICKNESS OF TIGHTLY-PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF SOLID CONCRETE OR CONCRETE BLOCK WALL AS REQUIRED TO ACCOMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4), AS AN ALTERNATE WHEN MAXIMUM PIPE SIZE IS 10" DIAMETER AND WHEN MAXIMUM ANNULAR SPACE IS 1", A MINIMUM 1" THICKNESS OF TIGHTLY-PACKED CERAMIC FIBER BLANKET OR MINERAL WOOL BATT PACKING MATERIAL MAY BE RECESSED MINIMUM 1/2" FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF SOLID CONCRETE WALL.

4 FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE TO THE MINIMUM THICKNESS SHOWN IN THE FOLLOWING TABLE:

MAXIMUM PIPE DIAMETER INCHES	MAXIMUM ANNULAR SPACE INCHES	PACKING MATERIAL TYPE (A)	MINIMUM CAULK THICKNESS INCHES
10	1	BR, CF, GF OR MW	1/2 (b)
10	1	CF OR MW	1/2 (c)
20	2 1/2	BR, CF, GF OR MW	1 (b)

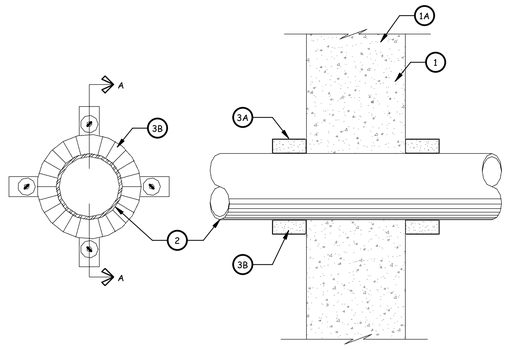
(a) BR = POLYETHYLENE BACKER ROD.
CF = CERAMIC FIBER BLANKET.
GF = GLASS FIBER INSULATION.
MW = MINERAL-WOOL BATT.
(b) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.
(c) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF SOLID (NON-CONCRETE BLOCK) WALL.

3M COMPANY -- CP 25WB + CAULK OR FB-3000 WT SEALANT.
(THE W RATING APPLIES ONLY WHEN FB-3000 WT SEALANT IS USED).

*BEARING THE UL CLASSIFICATION MARKING.

A3 PENETRATION DETAIL
NOT TO SCALE

SYSTEM NO. WJ2012
F RATING - 2 HOUR
T RATING - 0 AND 2 HOUR



SECTION A - A

1. WALL ASSEMBLY MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 5 IN.
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. NONMETALLIC PIPE NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID-CORE POLYVINYL CHLORIDE (PVC) PIPE OR CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS. ONE PIPE IS CENTERED WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE AND THE EDGE OF THE THROUGH OPENING ON EACH SIDE OF THE WALL SHALL BE MIN ZERO IN. (POINT CONTACT) TO MAX 1/4 IN. WHEN NOM 3-1/2 OR 4 IN. DIAM PIPE IS USED, T RATING IS 0 HR. WHEN NOM 3 IN. DIAM (OR SMALLER) PIPE IS USED, THE T RATING IS 2 HR
3. FIRESTOP SYSTEM INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
A. FILL, VOID OR CAVITY MATERIALS* -- WRAP STRIP NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 1 IN. WIDE STRIPS. NOM 1 IN. WIDE STRIPS TIGHTLY WRAPPED AROUND NONMETALLIC PIPE (FOIL SIDE EXPOSED) WITH THE EDGES BUTTED AGAINST THE SURFACE OF THE WALL. SUFFICIENT LAYERS OF WRAP STRIP SHALL BE INSTALLED TO LAP A MIN OF 3/16 IN. ON THE WALL SURFACE AROUND THE ENTIRE PERIMETER OF THE CIRCULAR THROUGH OPENING. FOR NOM 1/2 IN. TO NOM 2 IN. DIAM PIPES, A MIN OF ONE LAYER OF WRAP STRIP IS REQUIRED. FOR NOM 2-1/2 IN. AND NOM 3 IN. DIAM PIPES, A MIN OF TWO LAYERS OF WRAP STRIP IS REQUIRED. FOR NOM 3-1/2 IN. AND NOM 4 IN. DIAM PIPES, A MIN OF THREE LAYERS OF WRAP STRIP IS REQUIRED. EACH LAYER OF WRAP STRIP TO BE INSTALLED WITH A BUTTED SEAM, WITH BUTTED SEAMS IN SUCCESSIVE LAYERS STAGGERED. WRAP STRIP LAYERS TEMPORARILY HELD IN POSITION USING ALUMINUM FOIL TAPE, STEEL WIRE TIE OR EQUIVALENT.
MINNESOTA MINING & MFG CO -- FS-195*

B. STEEL COLLAR NOM 1 IN. DEEP COLLAR WITH 1-1/4 IN. WIDE BY 2 IN. LONG ANCHOR TABS AND MIN 3/4 IN. LONG TABS TO RETAIN WRAP STRIP LAYERS. COILS OF PRECUT 0.016 IN. THICK (NO. 30 GAUGE) GALV SHEET STEEL AVAILABLE FROM WRAP STRIP MANUFACTURER. STEEL COLLAR, WITH ANCHOR TABS BENT OUTWARD 90 DEGREE, WRAPPED TIGHTLY AROUND WRAP STRIP LAYERS WITH MIN 1 IN. OVERLAP AT THE SEAM, WITH STEEL COLLAR ANCHOR TABS PRESSED TIGHTLY AGAINST WALL SURFACE, COMPRESS COLLAR AROUND WRAP STRIP LAYERS USING A MIN 1/2 IN. WIDE BY 0.028 IN. THICK STAINLESS STEEL BAND CLAMP WITH WORM DRIVE TIGHTENING MECHANISM AT THE COLLAR MIDHEIGHT. SECURE COLLAR TO WALL SURFACE WITH MIN 3/16 IN. DIAM BY MIN 1-1/4 IN. LONG STEEL ANCHOR BOLTS IN CONJUNCTION WITH MIN 1-1/4 IN. DIAM STEEL WASHERS. THREE BOLTS, SYMMETRICALLY LOCATED, REQUIRED FOR NOM 1/2 IN. TO NOM 3 IN. DIAM PIPES. FOUR BOLTS, SYMMETRICALLY LOCATED, REQUIRED FOR NOM 3-1/2 AND 4 IN. DIAM PIPES. AS A FINAL STEP, BEND RETAINER TABS 90 DEGREE TOWARD PIPE TO LOCK WRAP STRIP LAYERS IN POSITION.
C. FILL, VOID OR CAVITY MATERIALS* -- CAULK (NOT SHOWN) -- GENEROUS BEAD OF CAULK APPLIED TO OUTER PERIMETER OF WRAP STRIP AT INTERFACE WITH WALL SURFACE AND TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WRAP STRIP LAYERS.
MINNESOTA MINING & MFG CO -- TYPE CP 25WB+

D. FIRESTOP DEVICE* -- (NOT SHOWN) AS AN ALTERNATE TO ITEM A AND B WHEN NOM 1-1/2, 2, 3 OR 4 IN. DIAM NONMETALLIC PIPES ARE USED, A FIRESTOP DEVICE CONSISTING OF A SHEET-STEEL SPLIT COLLAR LINED WITH INTUMESCENT MATERIAL AND PROVIDED WITH STEEL CLIPS FOR ATTACHMENT MAY BE USED. FIRESTOP DEVICE TO BE INSTALLED ON UNDERSIDE OF TOP PLATE OR ON BOTH SIDES OF WALL IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.
MINNESOTA MINING & MFG CO -- PPD 150, PPD 200, PPD 300, PPD400, PPD 1.5, PPD 2, PPD 3, PPD 4.

*BEARING THE UL CLASSIFICATION MARKING

A5 PENETRATION DETAIL
NOT TO SCALE

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North Carolina Design Registration #F-1507

0 1 2 3
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PROJECT# 24146

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PROJECT INFORMATION

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SEALS

NORTH CAROLINA BOARD OF EXAMINERS FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS
IMEG CORPORATION No. F-1507

5/2/25
NORTH CAROLINA INDUSTRIAL PROFESSIONAL ENGINEER SEAL 051195 PATRICK K. MCCABE
Patrick McCabe

DKA JOB NUMBER
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REVISIONS

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SHEET TITLE
MECHANICAL DETAILS

M201

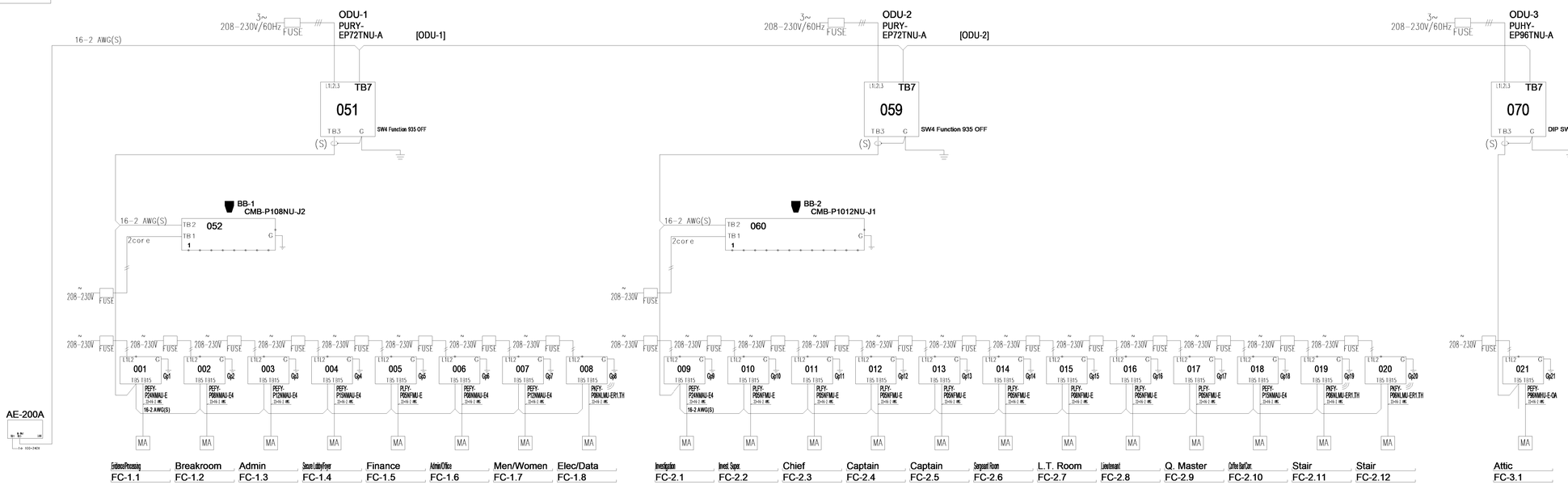
DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
——/——	POWER WIRE
- - - -	CONTROL WIRE

CONT.No | PAGE

CITY MULTI
SYSTEM SCHEMATIC DWG.

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm(16 AWG) : 1.25mm(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).



E1 VRF WIRING SCHEMATIC
NOT TO SCALE

DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
——/——	POWER WIRE
- - - -	REF. PIPE

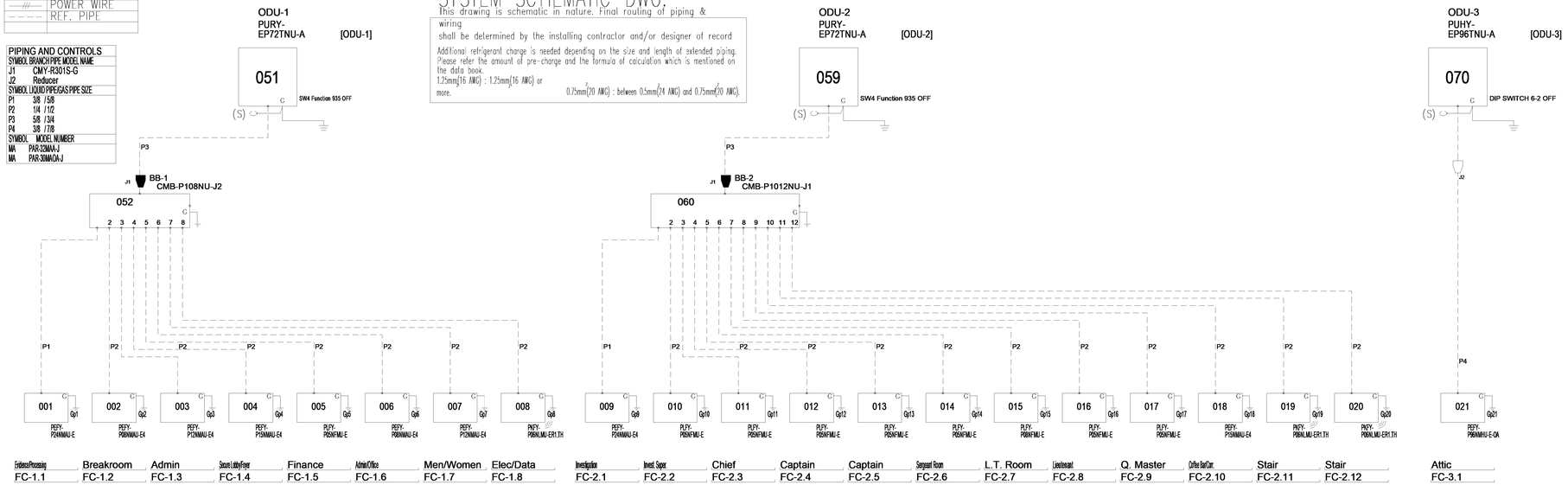
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PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-R301S-G
J2	Reducer
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/8 / 5/8
P2	1/4 / 1/2
P3	5/8 / 3/4
P4	3/8 / 7/8
SYMBOL	MODEL NUMBER
MA	PAR-32MAA-J
MA	PAR-30MAGA-J

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SYSTEM SCHEMATIC DWG.

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A1 VRF PIPING SCHEMATIC
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PROJECT# 24146

SHEET TITLE
VRF PIPING AND WIRING SCHEMATICS

M300

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARK
▭ o	2 X 4 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
▫ o	2 X 2 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
▭	1 X 4 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LINEAR WALL MOUNT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LINEAR STRIP FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
⊕	RECESSED CAN LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
⊙	SURFACE/PENDANT LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXTERIOR WALL PACK LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	IN-GROUND FLOOD LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXIT LIGHT FIXTURE - LETTER DESIGNATES TYPE CONNECTED UNSWITCHED	SEE FIXTURE SCHED.
	LIGHT FIXTURE ON UNSWITCHED CIRCUIT FOR NIGHT LIGHT. THE SHADE DESIGNATED THE NIGHT LIGHT.	SEE FIXTURE SCHED.
PC	PHOTOCELL, 105-305VAC, 50/60HZ, 1800VA BALLAST LOAD 1000W TUNGSTEN LOAD, 8A LED LOAD (UP TO 2220W @277V)	TORK: ZSS124
EP	EMERGENCY POWER UNIT (INVERTER) FOR EMERGENCY LIGHT FIXTURES. 120V INPUT, 120V OUTPUT, 375W WITH 90 MIN. BACKUP TIME.	EELP: PSL-375-S
S	SINGLE POLE TOGGLE SWITCH. MOUNT 42" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL 1221-** WITH S1 COVER PLATE
S^3	THREE WAY TOGGLE SWITCH. MOUNT 42" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL 1223-** WITH S1 COVER PLATE
S^{EQ}	SINGLE POLE TOGGLE SWITCH FOR EQUIPMENT DISCONNECT MOUNT ADJACENT TO EQUIPMENT	HUBBELL 1221-** WITH METAL COVER PLATE
S^{EQ2}	TWO POLE TOGGLE SWITCH FOR EQUIPMENT DISCONNECT MOUNT ADJACENT TO EQUIPMENT	HUBBELL 1222-** WITH METAL COVER PLATE
S^{WP}	20A SINGLE POLE TOGGLE SWITCH WITH NEMA 3R COVER PLATE FOR EQUIPMENT DISCONNECT. MOUNT ADJACENT TO EQUIPMENT	BELL 5128-0 WITH 5320-0 BOX
S^{PL}	SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT. LOAD ON - LIGHT ON MOUNT 42" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL 1221PL WITH S1 COVER PLATE
S^{M1}	WALL MOUNTED OCCUPANCY SENSOR SWITCH, PASSIVE INFRARED MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. 800W/120VAC OR 1200W/277VAC	SENSORSWITCH WSXA-** S26 COVER PLATE
S^{M2}	WALL MOUNTED OCCUPANCY SENSOR SWITCH, DUAL TECHNOLOGIES. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. 800W/120VAC OR 1200W/277VAC	SENSORSWITCH WSXA-PDT-** SJ26 COVER PLATE
S^{MD}	WALL MOUNTED 0-10V DIMMING SWITCH WITH OCCUPANCY SENSOR. DUAL TECHNOLOGIES.. 1000W/120VAC OR 1200W/277VAC MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE SWITCHED WIRE AND 0-10V CONTROL WIRE TO FIXTURE AS REQUIRED.	SENSORSWITCH WSXA-PDT-D-** NPJ26 COVER PLATE
M4	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGIES. 800W/120VAC OR 1200W/277VAC, 28 FT. RADIUS	SENSORSWITCH CMR-PDT-10
S^D	DIMMING SWITCH WITH PRESET TO MATCH TYPE 'XX' FIXTURE. 0-10V DIMMING. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE SWITCHED WIRE AND 0-10V CONTROL WIRE TO FIXTURE AS REQUIRED.	SYNERGY: ISD-BC-120/277-** WITH S26 PLATE
	SPECIFICATION GRADE SIMPLEX RECEPTACLE. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL 5361-** WITH NPJ8 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL HBL5362-**-TR WITH NPJ8 COVER PLATE
GFI	SPECIFICATION GRADE TAMPER RESISTANT GFCI DUPLEX RECEPTACLE MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL GFTRST20-** WITH NPJ26 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE. MOUNT 4" ABOVE COUNTER TOP	HUBBELL HBL5362-**-TR WITH NPJ8 COVER PLATE
GFI	SPECIFICATION GRADE TAMPER RESISTANT GFCI DUPLEX RECEPTACLE MOUNT 4" ABOVE COUNTER TOP	HUBBELL GFTRST20-** WITH NPJ26 COVER PLATE
WP	SPECIFICATION GRADE TAMPER RESISTANT, WEATHER RESISTANT AND GFCI DUPLEX RECEPTACLE WITH IN-USE WEATHER PROOF COVER. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL GFTWRST20-** WITH WP26M COVER PLATE
EWC	SPECIFICATION GRADE DUPLEX RECEPTACLE FOR WATER COOLER. MOUNT 24" A.F.F. FOR CONCEALMENT OF CORD. FED FROM GFCI CIRCUIT BREAKER	HUBBELL 5362-** WITH NPJ8 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED. FED FROM GFCI CIRCUIT BREAKER	HUBBELL HBL5362-**-TR WITH NPJ8 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT QUAD RECEPTACLE MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL (2) HBL5362-**-TR WITH NPJ82 COVER PLATE
WG	SPECIFICATION GRADE TAMPER RESISTANT, WEATHER RESISTANT DUPLEX RECEPTACLE WITH IN-USE WEATHER PROOF COVER. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL BR20-**-20-WRTR WITH WP26M COVER PLATE
'XX'	POWER RECEPTACLE WITH GROUND, 'XX' DESIGNATES TYPE OR RATING. FIELD VERIFY NUMEBR OF POLE AND NEUTRAL MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL TO MATCH EQUIPMENT
DN	2 GANG ROUND FLUSH TO FLOOR OUTLET FIRST FLOOR: SUITABLE FOR CONCRETE FLOOR SECOND FLOOR: FIRE RATED POKE THROUGH 1 GANG FOR DUPLEX RECEPTACLE 1 GANG FOR COMMUNICATION OUTLET	HUBBELL: 1ST FL.: S1PFB 2BD FL.: S1PTAVIFT

SYMBOL	DESCRIPTION	REMARK
D(2)	2 PORT COMMUNICATION OUTLET MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED. STUB 1" CONDUIT TO ACCESSIBLE CEILING SPACE 2 RJ45 JACKS WITH 2 - CAT 6 CABLES TO PATCH PANEL IT ROOM AT SAME FLOOR.	HUBBELL: 2 RJ45 JACKS NS612-** FRAME S26 COVER PLATE
D(1)	1 PORT COMMUNICATION OUTLET MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED. STUB 1" CONDUIT TO ACCESSIBLE CEILING SPACE 1 RJ45 JACKS WITH 1 - CAT 6 CABLES TO PATCH PANEL IT ROOM AT SAME FLOOR.	HUBBELL: 1 RJ45 JACKS NS612-** FRAME S26 COVER PLATE
WAP	WIFI ACCESS OUTLET AT CEILING PANEL 1 RJ45 BISCUIT JACK WITH 1 CAT 6 CABLE TO PATCH PANEL IN IT ROOM AT SAME FLOOR. LEAVE 10 FT. SLAG CABLE AT REQUIRED LOCATION. WIFI ACCESS POINT FURNISHEDAND INSTALLED BY OWNER'S CONTRACTOR	1-RJ45 BISCUIT JACK
	CEILING MOUNTED POE SECURITY CAMERA 1 RJ45 BISCUIT JACK WITH 1 CAT 6 CABLE TO PATCH PANEL IN IT ROOM AT SAME FLOOR. LEAVE 10 FT. SLAG CABLE AT REQUIRED LOCATION. CAMERA FURNISHED BY OWNER'S CONTRACTOR	1-RJ45 BISCUIT JACK
	WALL MOUNTED POE SECURITY CAMERA STUB 3/4" CONDUIT TO ACCESSIBLE CEILING OR ATTIC SPACE. 1 RJ45 BISCUIT JACK WITH 1 CAT 6 CABLE TO PATCH PANEL IN IT ROOM LEAVE 3 FT. SLAG CABLE AT OUTLET.	SINGLE GANG BOX 1-RJ45 BISCUIT JACK S13 COVER PLATE
CR	CARD READER MOUNT 42" A.F.F. UNLESS OTHERWISE NOTED. SEE DETAIL 4/E202 CARD READER FURNISHED AND INSTALLED BY OWNER CONTRACTOR.	SINGLE GANG BOX S13 COVER PLATE
SS	WALL MOUNTED SECURITY STROBE. STUB 3/4"C TO ACCESSIBLE CEILING SPACE MOUNT 80" A.F.F. UNLESS OTHERWISE NOTED. STROBE IS FURNISHED AND INSTALLED BY OWNER CONTRACTOR.	SINGLE GANG BOX S13 COVER PLATE
DR	DURESS BUTTON. STUB 3/4"C TO ACCESSIBLE CEILING SPACE FIELD VERIFY MOUNTING HEIGHT WITH SECURITY CONTRACTOR STROBE IS FURNISHED AND INSTALLED BY OWNER CONTRACTOR.	SINGLE GANG BOX S13 COVER PLATE
ICR	INTERCOM: WALL MOUNTED REMOTE STATION. STUB 3/4"C TO ACCESSIBLE CEILING SPACE. MOUNT 42" A.F.F. UNLESS OTHERWISE NOTED. INTERCOM IS FURNISHED AND INSTALLED BY OWNER CONTRACTOR.	SINGLE GANG BOX S13 COVER PLATE
ICM	INTERCOM: OUTLET FOR INTERCOM MASTER STATION. STUB 3/4"C TO ACCESSIBLE CEILING SPACE. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED. INTERCOM IS FURNISHED AND INSTALLED BY OWNER CONTRACTOR.	SINGLE GANG BOX S13 COVER PLATE
GEN	GENERATOR REMOTE ANNUNCIATOR MOUNT 42" A.F.F. UNLESS OTHERWISE NOTED. BASE BID: PROVIDE REMOTE ANNUNCIATOR MATCH OWNER'S GENERATOR ALT. BID #1: REMOTE ANNUNCIATOR IS REQUIRED. SEE SPECIFICATION	
J	JUNCTION BOX SIZED PER N.E.C.	
	DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE	SQUARE D HEAVY DUTY
	NEW CONCEALED WIRING	PER N.E.C.
	UNSWITCHED LIGHTING CONDUCTOR	PER N.E.C.
	HOME RUN TO PANEL BOARD	PER N.E.C.
	120/208V 3Ø, 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D NQ OR EQUAL
TF	DRY TYPE DISTRIBUTION TRANSFORMER. SEE POWER RISER	SQUARE D OR EQUAL
A.F.C.	ABOVE FINISHED CEILING	
A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	
B.F.F.	BELOW FINISHED FLOOR	
B.F.G.	ABOVE FINISHED CEILING	

NOTES:

1. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH, RECEPTACLE AND WALL PLATE TO ARCHITECT PRIOR PURCHASING ANY.
2. LINE VOLTAGE OCCUPANCY SWITCHES AND LOW VOLTAGE OCCUPANCY CONTROL SHOWN ON THIS PLAN ARE FOR GUIDELINE.
3. SEE DETAIL 2/E201 FOR ELEVATOR 2-WAY COMMUNICATION LEGEND.

RATED ASSEMBLIES LEGEND

1-HR RATED FIRE BARRIER

GENERAL NOTES

1. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
3. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
4. ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
5. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
6. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
7. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS. SEE DETAILS FOR CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS
9. PENETRATION:
   - WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
   - WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
10. ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
11. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
12. THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
13. AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
14. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES. ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
15. ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THHN/THWN WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THWN-2 WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
16. MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
17. ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE ACCEPTABLE WIRING METHODS SUBJECTED TO THE FOLLOWING RESTRICTIONS:
   - SEE NEC 320 AND 330 FOR RESTRICTION.
   - PENETRATIONS OF RATED WALLS SHALL BE IN ACCORDANCE WITH APPROVED UL PENETRATION METHODS.
   - CABLE SHALL NOT BE USED FOR HOME RUN TO PANEL BOARD.
   - CABLE SHALL ONLY BE INSTALLED IN CONCEALED SPACE AND FURRED AREAS.
18. THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
19. WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY ARE SEPARATED BY A MINIMUM OF 24".
20. ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
21. ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
22. BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL. WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
23. FOR ALL RECEPTACLES LOCATED ABOVE COUNTER TOP, MOUNTING HEIGHT SHALL COMPLY WITH ANSI A117.1, SECTION 308. E.C. SHALL FIELD VERIFY CASEWORK DETAIL WITH ARCHITECT PRIOR TO ROUGH-IN.
24. ELECTRICAL IDENTIFICATION
   - FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANEL BOARDS, TRANSFORMERS, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT FOR IDENTIFICATION.
   - FURNISH AND INSTALL SELF-ADHESIVE PLASTIC TAPE FOR ALL RECEPTACLE AND WALL SWITCH COVER PLATES INDICATING CIRCUIT NUMBERS.
25. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY. THE OWNER SHALL PAY ALL CHARGES FOR THE INSTALLATION OF THE NEW UNDERGROUND UTILITY SERVICE.
26. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE LOCATION OF HIS COMMUNICATION CONDUIT STUB OUTS WITH THE LOCAL COMMUNICATION SERVICE COMPANY PRIOR TO HIS INSTALLING ANY CONDUITS
27. BASE BID:
   - GENERATOR AND AUTOMATIC TRANSFER SWITCH ARE PROVIDED BY THE OWNER.
   - GENERATOR:
     a. 150KW DIESEL GENERATOR WITH SUB BASE TANK.
     b. BLUESTAR MODEL: SD150-01
     c. 277/480V OUTPUT WITH 250A GENERATOR BREAKER.
   - AUTOMATIC TRANSFER SWITCH:
     a. 400A, 480V, 3P WITH NEMA 4X ENCLOSURE
     b. ASCO MODEL: J03ATSA304CONGXH
   - SEE DETAIL 1/E200.
28. ALTERNATE BID #1:
   - PROVIDE NATURAL GAS GENERATOR AND INDOOR AUTOMATIC TRANSFER SWITCH. SEE DETAIL 2/E200.

ELECTRICAL DESIGN SUMMARY

ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE: **Energy Code:** ☒ **Prescriptive** ☐ **Performance**

ASHRAE 90.1: ☐ **Prescriptive** ☐ **Performance**

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE: SEE FIXTURE SCHEDULE

NUMBER OF LAMPS IN THE FIXTURE: SEE FIXTURE SCHEDULE

BALLAST TYPE USED IN THE FIXTURE: SEE FIXTURE SCHEDULE

NUMBER OF BALLASTS IN THE FIXTURE: SEE FIXTURE SCHEDULE

TOTAL WATTAGE PER FIXTURE: SEE FIXTURE SCHEDULE

TOTAL INTERIOR WATTAGE: 5215 VS 5461
SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE)

TOTAL EXTERIOR WATTAGE: 916 VS 990
SPECIFIED VS. ALLOWED

ADDITIONAL EFFICIENCY PACKAGE OPTIONS
(WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

- ☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
- ☒ C406.3 REDUCED LIGHTING POWER DENSITY
- ☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- ☐ C406.5 ON-SITE RENEWABLE ENERGY
- ☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
- ☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED:
NAME: SUJIN PRAMOJANIRT, P.E.
TITLE: ENGINEER

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North Carolina Design Registration #F-1507

REF. SCALE IN INCHES 0 1 2 3 — PROJECT# 24146

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PROJECT INFORMATION

POLICE HEADQUARTER BUILDING
TOWN OF ANGIER

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ANGIER, NC 27501

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL IMEG CORPORATION No. F-1507

5/5/2025

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027479 SUJIN PRAMOJANIRT ENGINEERING

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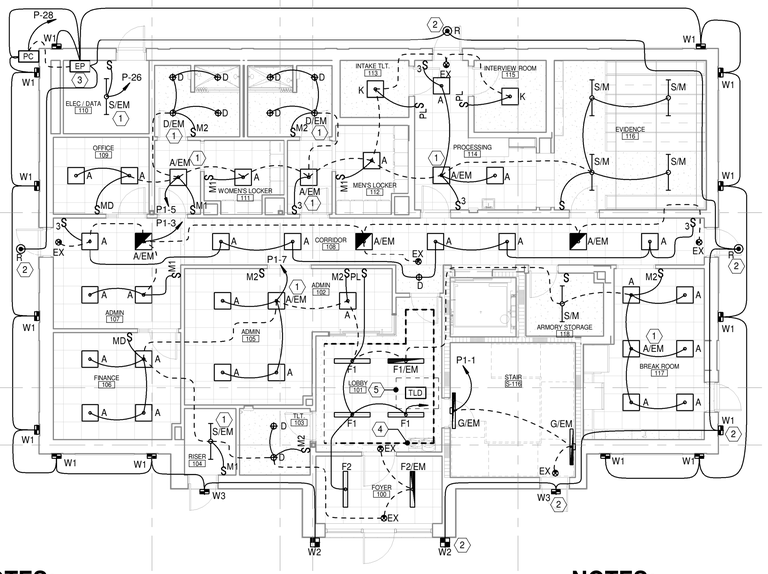
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SHEET TITLE
ELECTRICAL LEGEND, NOTES

E000



KEY NOTES:

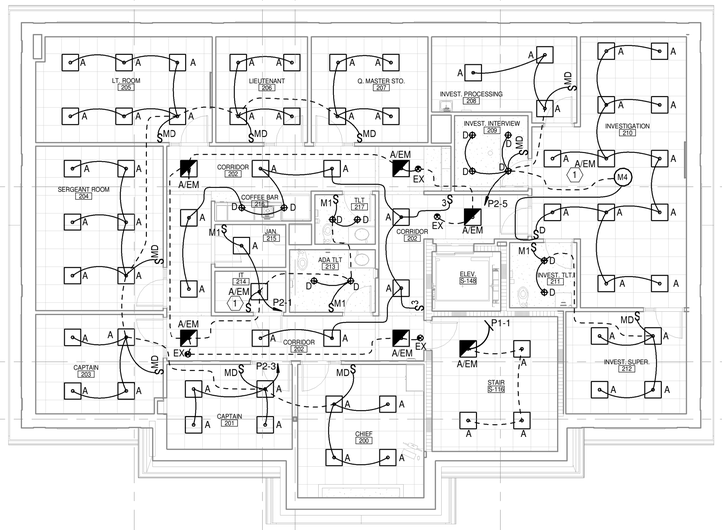
1. FIXTURE WITH EMERGENCY BATTERY BACKUP.
   - CONNECT EMERGENCY CIRCUIT UNSWITCHED AHEAD WALL SWITCH.
   - CONNECT SWITCHED CIRCUIT TO WALL SWITCH.
2. EXTERIOR LIGHT TO BE USED AS EXTERIOR EMERGENCY LIGHT. CONTROLLED BY EMERGENCY POWER BACKUP UNIT PER KEY NOTE #2.
3. EMERGENCY POWER BACKUP UNIT FOR EXTERIOR EMERGENCY LIGHT.
   - CONNECT EMERGENCY CIRCUIT UNSWITCHED TO CKT# P-28.
   - CONNECT NORMAL SWITCHED CIRCUIT TO LOAD SIDE OF PHOTOCELL.
   - FIELD COORDINATE LOCATION IN ELEC./IT 110.
4. PROVIDE TYPE TL AROUND FOR COVE LIGHT. APPROX. TOTAL LENGTH OF 55 FEET. PROVIDE ALL ACCESSORIES FOR INSTALLATION PER MANUFACTURER INSTRUCTION.
5. PROVIDE LED DRIVER MODULES TO MATCH TYPE TL FIXTURE:
   - 200W, 120V DIMMABLE ELECTRONIC FLICKER-FREE. 24V OUTPUT
   - LLI ARCHITECTURAL LIGHTING: LLI-PS-UDEF-200W-24V-KO
   - LOCATED IN ACCESSIBLE CEILING SPACE AND CONNECT TO TYPE TL FIXTURE.

NOTES:

1. TYPE A AND A/EM LUMEN SETTINGS:
   a. 3000 LUMEN: 108, 111 (CORRIDOR), 112 (CORRIDOR), 117
   b. 4000 LUMEN: 106, 107
   c. 5000 LUMEN: 102, 109, 111 (LOCKER), 112 (LOCKER), 114
2. TYPE S, S/EM AND S/M LUMEN SETTING:
   a. 3000 LUMEN: 104
   b. 4000 LUMEN: 118
   c. 5000 LUMEN: 110, 116

1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

0' 4' 8' 16'



KEY NOTES:

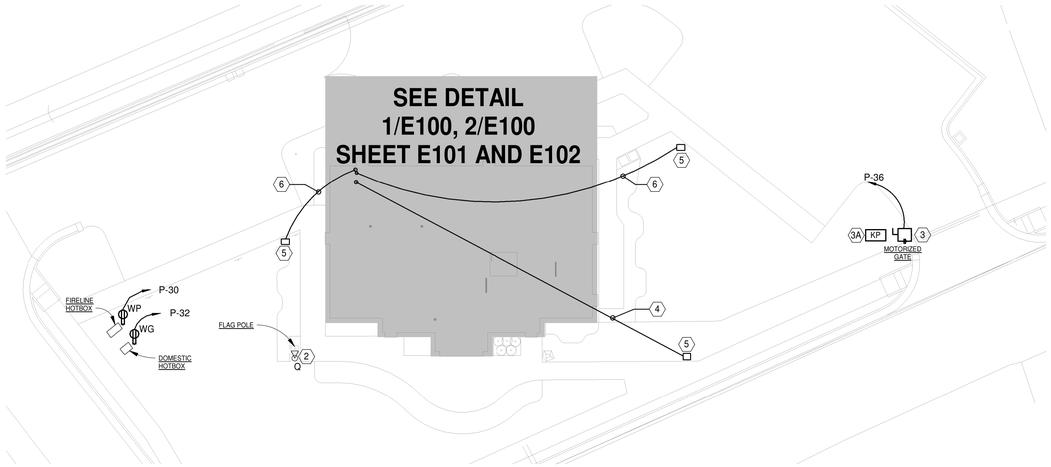
1. FIXTURE WITH EMERGENCY BATTERY BACKUP.
   - CONNECT EMERGENCY CIRCUIT UNSWITCHED AHEAD WALL SWITCH.
   - CONNECT SWITCHED CIRCUIT TO WALL SWITCH.

NOTES:

1. TYPE A AND A/EM LUMEN SETTINGS:
   a. 3000 LUMEN: 202, 214, 215, S-116
   b. 4000 LUMEN: 201, 203-207, 210
   c. 5000 LUMEN: 200, 208

2 SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"

0' 4' 8' 16'



KEY NOTES:

1. HOT BOXES:
   - RECEPTACLE TO BE INSTALLED INSIDE HOT BOX.
   - SEE SITE PLAN FOR LOCATION.
   - FIELD VERIFY INSTALLATION WITH CIVIL CONTRACTOR.
2. IN-GROUND FLOOD LIGHT FOR FLAG POLE.
   - FIELD VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
   - RUN UNDER WIRES IN CONDUIT TO BUILDING AND CONNECT TO CKT# P-29 VIA PHOTOCELL.
3. SECURITY GATE:
   - GATE CONTROLLER FURNISHED AND INSTALLED BY G.C. WIRED BY E.C.
   - E.C. TO PROVIDE DISCONNECT AND POWER CONNECTION AS INDICATED.
   - E.C. TO INSTALL ASSOCIATED ELECTRICAL SYSTEM PER MANUFACTURER INSTRUCTION.
   - E.C. TO PROVIDE SECURITY ROUGH-IN WITH UNDERGROUND CONDUIT TO MAIN BUILDING PER OWNER SECURITY CONTRACTOR'S INSTRUCTION. MIN. CONDUIT SIZE IS 1". MIN BURIAL DEPTH IS 24" B.F.G.

   3A. SECURITY KEYPAD AND AUDIO/VIDEO STATION ON A PEDESTAL. PROVIDE 1" (MIN.) UNDERGROUND CONDUIT TO GATE CONTROLLER PER SECURITY CONTRACTOR INSTRUCTION.
4. 2-2" UNDERGROUND CONDUITS FOR COMMUNICATION SERVICE.
   - E.C. SHALL FIELD VERIFY TERMINATED LOCATION AT PROPERTY WITH THE COMMUNICATION SERVICE COMPANY.
   - MIN. BURIAL DEPTH OF 24" B.F.G.
   - PROVIDE WITH PULL WIRE.
5. TERMINATE IN IN-GROUND BOX.
6. 1" UNDERGROUND CONDUIT FROM PANEL P.
   - MIN. BURIAL DEPTH OF 24" B.F.G.
   - PROVIDE WITH PULL WIRE.

3 ELECTRICAL SITE PLAN
1" = 20'-0"

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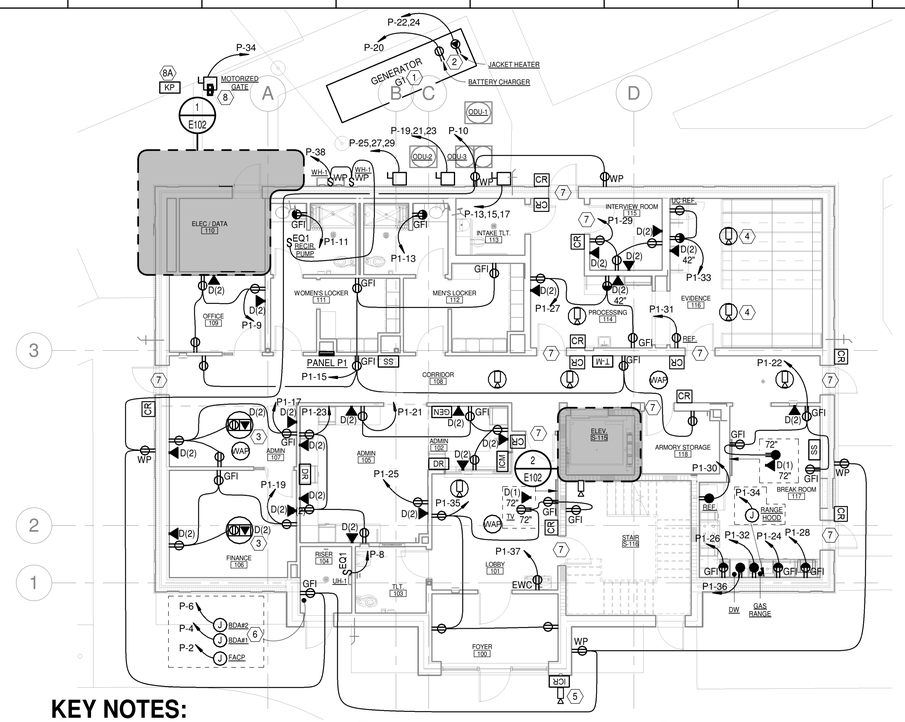
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SHEET TITLE
LIGHTING PLAN
ELECTRICAL SITE PLAN

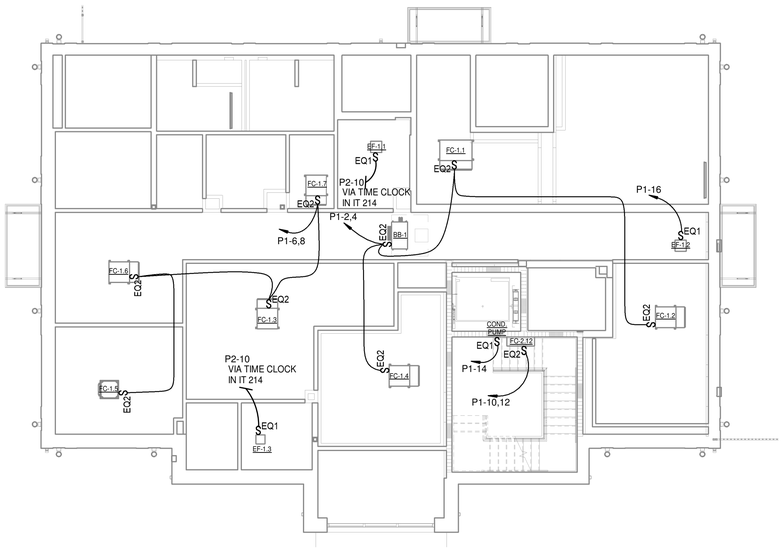
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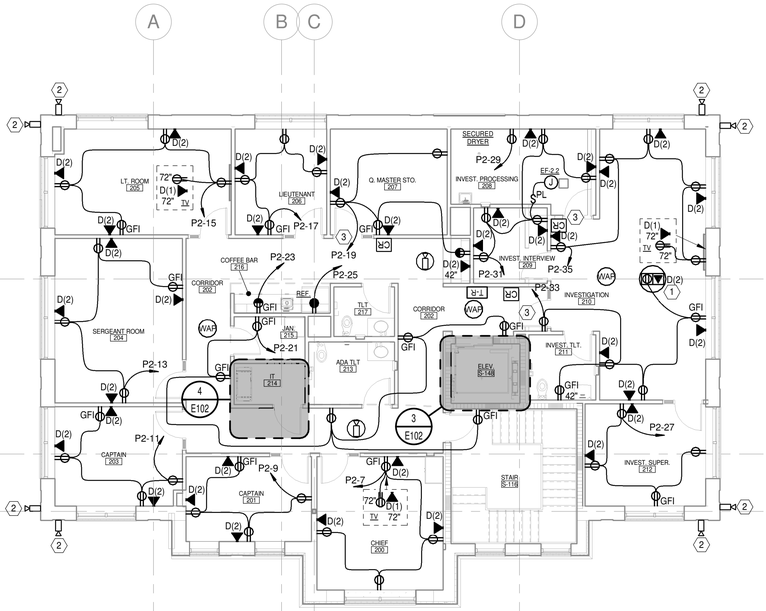
KEY NOTES:

1. GENERATOR:
   - BASE BID: DIESEL GENERATOR. SEE DETAIL 1/E200.
   - ALT. BID #1: NATURAL GAS GENERATOR. SEE DETAIL 2/E200.
2. GENERATOR SUPPORT CIRCUITS:
   - LOCATE INSIDE GENERATOR.
   - FIELD VERIFY CIRCUITS AND CONNECTION TYPE TO MATCH GENERATOR.
3. AT FLOOR OUTLET, PROVIDE 1"C FROM FLOOR TO NEAREST WALL AND TURN UP TO ACCESSIBLE CEILING SPACE FOR CAT6 CABLES.
4. SECURITY CAMERA LOCATION ON HARD CEILING. PROVIDE J-BOX AND 3/4"C TO ACCESSIBLE CEILING SPACE ABOVE CORRIDOR.
5. AT EXTERIOR WALL MOUNTED SECURITY CAMERA
   - PROVIDE 3/4"C TO ACCESSIBLE CEILING SPACE. INSTALL CONDUIT FLUSHED WITH WALL. BOX IS NOT REQUIRED.
   - LEAVE 3 FT. SLAG WIRES.
6. BDA SYSTEM. PROVIDE INSTALLATION IF REEUIRED. SEE DETAIL 3/FA100.
7. SECURED DOOR. SEE DETAIL 4/E202 FOR REQUIRED ROUGH-IN.
8. SECURITY GATE:
   - GATE CONTROLLER FURNISHED AND INSTALLED BY G.C. WIRED BY E.C.
   - E.C. TO PROVIDE DISCONNECT AND POWER CONNECTION AS INDICATED.
   - E.C. TO INSTALL ASSOCIATED ELECTRICAL SYSTEM PER MANUFACTURER INSTRUCTION.
   - E.C. TO PROVIDE SECURITY ROUGH-IN WITH UNDERGROUND CONDUIT TO MAIN BUILDING PER OWNER SECURITY CONTRACTOR'S INSTRUCTION. MIN. CONDUIT SIZE IS 1". MIN BURIAL DEPTH IS 24" B.F.G.
8A. SECURITY KEYPAD AND AUDIO/VIDEO STATION ON A PEDESTAL. PROVIDE 1" (MIN.) UNDERGROUND CONDUIT TO GATE CONTROLLER PER SECURITY CONTRACTOR INSTRUCTION.

1 FIRST FLOOR POWER PLAN
1/8" = 1'-0"
0' 4' 8' 16'



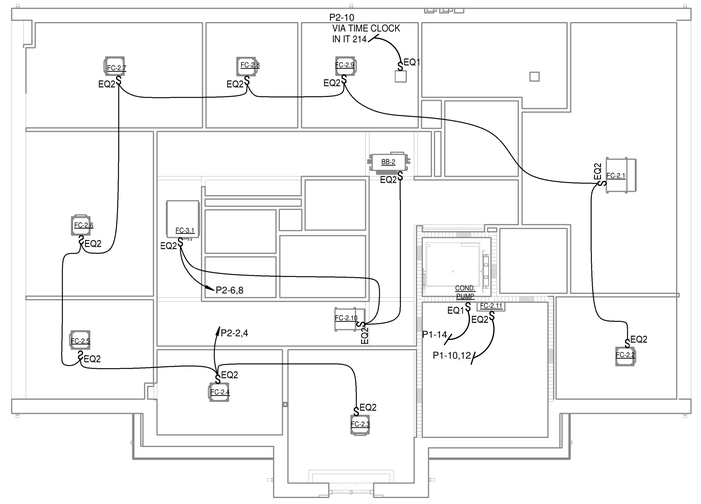
2 FIRST FLOOR POWER PLAN - HVAC
1/8" = 1'-0"
0' 4' 8' 16'



KEY NOTES:

1. AT FLOOR OUTLET, PROVIDE 1"C FROM FLOOR TO FIRST FLOOR ACCESSIBLE CEILING SPACE FOR CAT6 CABLES.
2. AT EXTERIOR WALL MOUNTED SECURITY CAMERA
   - PROVIDE 3/4"C TO ACCESSIBLE CEILING SPACE. INSTALL CONDUIT FLUSHED WITH WALL. BOX IS NOT REQUIRED.
   - LEAVE 3 FT. SLAG WIRES.
3. SECURED DOOR. SEE DETAIL 4/E202 FOR REQUIRED ROUGH-IN.

3 SECOND FLOOR POWER PLAN
1/8" = 1'-0"
0' 4' 8' 16'



4 SECOND FLOOR POWER PLAN - HVAC
1/8" = 1'-0"
0' 4' 8' 16'

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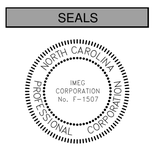
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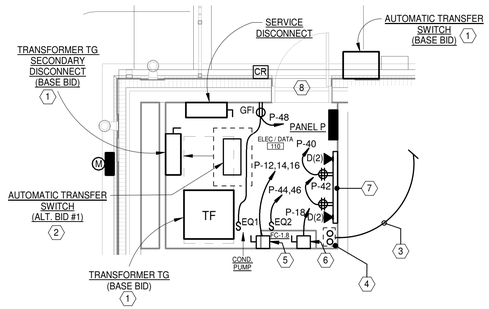
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SHEET TITLE
POWER PLAN

E101

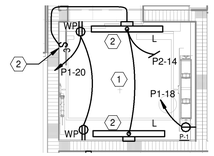


KEY NOTES:

1. BASE BID INSTALLATION. SEE DETAIL 1/E200
2. ALTERNATE BID INSTALLATION. SEE DETAIL 2/E200.
3. COMMUNICATION SERVICE CONDUITS:
   2 - 2" UNDERGROUND CONDUITS TO PROPERTY LINE FOR COMMUNICATION SERVICE
   - FIELD VERIFY TERMINATE LOCATION AT PROPERTY LINE WITH COMMUNICATION SERVICE COMPANY.
   - PROVIDE WITH PULL WIRES.
4. CONDUITS EMERGE FROM UNDERGROUND
   - TERMINATE IN A PULL BOX.
   - EXTEND 2 - 2"C FROM PULL BOX TO IT 214.
5. ELEVATOR DISCONNECT WITH FUSES AND SHUNT TRIP.
   - 60A, 208VAC, 3P NEMA 1 FUSIBLE DISCONNECT.
   - PROVIDE 60A FUSES.
   - WITH SHUNT TRIP AND AUXILIARY CONTACTS.
   - LOCKABLE OPERATING HANDLE MEETS ALL CODE AND SAFETY REQUIREMENTS.
   - SEE DETAIL 6/E102.
   - LITTELFUSE: LPS6-T20-R1-K-G-N6-B-F1 OR EQUAL.
   - FIELD VERIFY TO MEET ELEVATOR CONTRACTOR PRIOR TO ORDERING.
6. ELEVATOR CAR LIGHT DISCONNECT WITH FUSE.
   - 30A, 120VAC, 1P NEMA 1 FUSIBLE DISCONNECT.
   - PROVIDE 20A FUSE.
   - LOCKABLE OPERATING HANDLE MEETS ALL CODE AND SAFETY REQUIREMENTS.
   - SEE DETAIL 6/E102.
7. PROVIDE 4'X8' 3/4"THICK FIRE PROOF PLYBOARD ON WALL FOR SECURITY SYSTEM.
8. SECURED DOOR. SEE DETAIL 4/E202 FOR REQUIRED ROUGH-IN.

1 POWER PLAN - ELEC./DATA 110

1/4" = 1'-0"

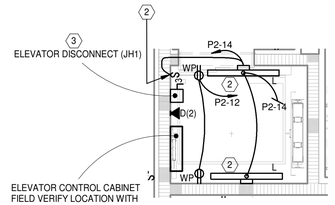


KEY NOTES:

1. ELEVATOR PIT NOTES:
   - LOCATE SWITCH FOR PIT LIGHTS ADJACENT TO PIT ACCESS LADDER.
   - FIELD VERIFY RECEPTACLE LOCATION WITH ELEVATOR CONTRACTOR.
   - FIELD COORDINATE LOCATION OF SUMP PUMP RECEPTACLE WITH P.C.
   - MOUNT PIT LIGHTS AND RECEPTACLE 18" ABOVE PIT FLOOR.
   - ELEVATOR PIT IS WATER PROOF. NEC 682.11 IS NOT APPLICABLE FOR ELEVATOR PIT.
2. LIGHT FIXTURES AND LIGHT SWITCH
   SEE DETAIL 7/E102 FOR WIRING DIAGRAM.

2 POWER PLAN - 1ST FL. ELEV.

1/4" = 1'-0"

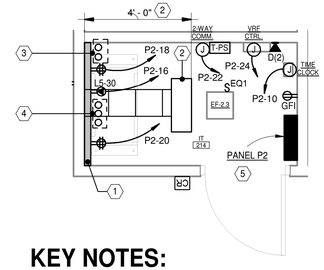


KEY NOTES:

1. ELEVATOR TOP NOTES:
   - LOCATE SWITCH FOR ELEVATOR TOP LIGHTS ADJACENT TO ELEVATOR JAM.
   - FIELD VERIFY RECEPTACLE LOCATION WITH ELEVATOR CONTRACTOR.
   - MOUNT LIGHTS AND RECEPTACLE FROM TOP OF HOIST WAY PER ELEVATOR CONTRACTOR INSTRUCTION.
2. LIGHT FIXTURES AND LIGHT SWITCH
   SEE DETAIL 7/E102 FOR WIRING DIAGRAM.
3. ELEVATOR MAIN DISCONNECT (JH1)
   - SEE DETAIL 5/E102 AND 6/E102 FOR WRING DIAGRAM.
   - FIELD VERIFY LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.

3 POWER PLAN - 2ND FL. ELEV.

1/4" = 1'-0"

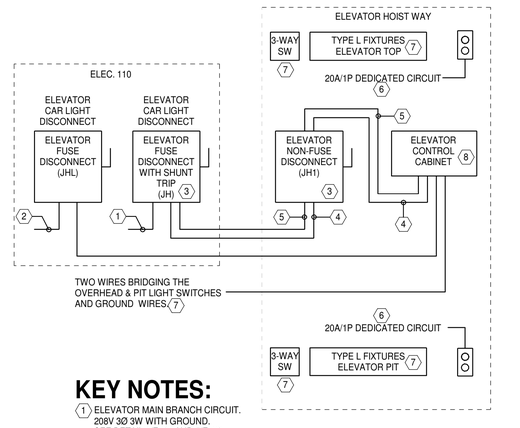


KEY NOTES:

1. COMMUNICATION BOARD:
   - THIS IS THE BUILDING COMMUNICATION DEMARC.
   - PROVIDE 3/4" THICK FIREPROOF PLY BOARD ON THIS WALL FROM FLOOR TO 8 FT. A.F.F.
   - PROVIDE GROUND BAR AND 1-#6G CU IN 1/2"C TO MAIN GROUNDING AT SERVICE DISCONNECT.
2. COMMUNICATION RACK.
   - 19" 2 POST RACK.
   - MOUNT FRONT OF RACK APPROX. 4 FT. FROM COMMUNICATION BOARD. SEE COMMUNICATION RISER DIAGRAM.
   - PROVIDE 12" LADDER RACK FROM ABOVE RACK TO COMMUNICATION BOARD.
3. COMMUNICATION SERVICE CONDUITS:
   - 2 - 2"C TO JUNCTION BOX IN ELEC. 110 PER KEY NOTE #4 IN DETAIL 1/E102.
   - PROVIDE WITH PULL WIRES.
4. SLEEVES FOR DISTRIBUTION CABLES:
   - 2 - 4"C AND 1 - 3"C TO 1ST FLOOR ACCESSIBLE CEILING SPACE. TERMINATE CONDUIT 12" A.F.F. STUB 6" INTO 1ST FLOOR ACCESSIBLE CEILING SPACE.
5. SECURED DOOR. SEE DETAIL 4/E202 FOR REQUIRED ROUGH-IN.

4 POWER PLAN - IT 214

3/8" = 1'-0"

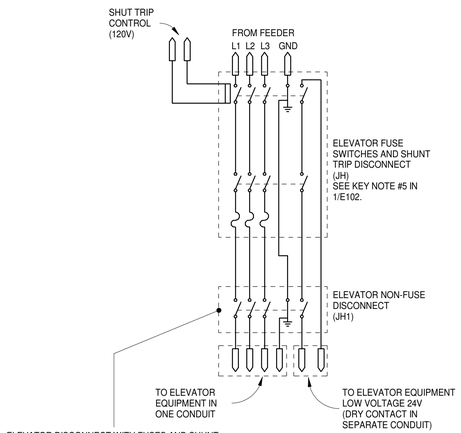


KEY NOTES:

1. ELEVATOR MAIN BRANCH CIRCUIT.
   208V 3Ø 3W WITH GROUND.
   SEE DETAIL 4/E102 AND 5/E102.
2. ELEVATOR CAR LIGHT BRANCH CIRCUIT
   20A/1P 120V
   SEE DETAIL 4/E102.
3. ELEVATOR MAIN CIRCUIT DISCONNECT.
   SEE DETAIL 3/E102, 4/E102 AND 6/E102.
4. LINE VOLTAGE WIRING,
   SEE DETAIL 6/E102.
5. LOW VOLTAGE WIRING.
   SEE DETAIL 6/E102.
6. CONVENIENT RECEPTACLE CIRCUIT.
   SEE DETAIL 2/E102 AND 3/E102.
7. HOISTWAY LIGHTING:
   SEE DETAIL 2/E102, 3/E102 AND 7/E102.
8. ELEVATOR CONTROL CABINET.
   - FURNISHED AND INSTALLED BY ELEVATOR CONTRACTOR.
   - E.C. SHALL FIELD COORDINATE WITH ELEVATOR CONTRACTOR FOR WIRE TERMINATION. FINAL CONNECTION BY ELEVATOR CONTRACTOR.

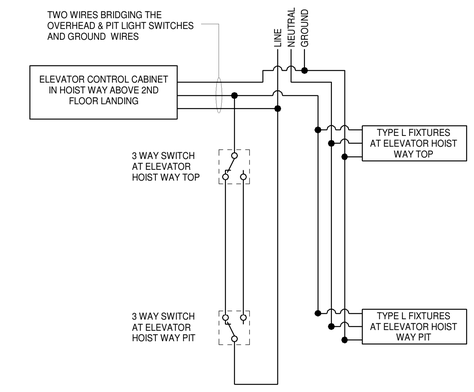
5 ELEVATOR - E.C. RESPONSIBILITY

NOT TO SCALE



6 ELEVATOR - SHUNT TRIP WIRING DIAGRAM

NOT TO SCALE



7 ELEVATOR - HOISTWAY LIGHTING WIRING

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(919) 571-1111
IMEG# 24146

PROJECT INFORMATION

POLICE HEADQUARTER BUILDING
TOWN OF ANGIER

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL IMEG CORPORATION No. F-1507 CORPORATION

5/5/2025

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027479 ENGINEERING

DKA JOB NUMBER
2418

REVISIONS

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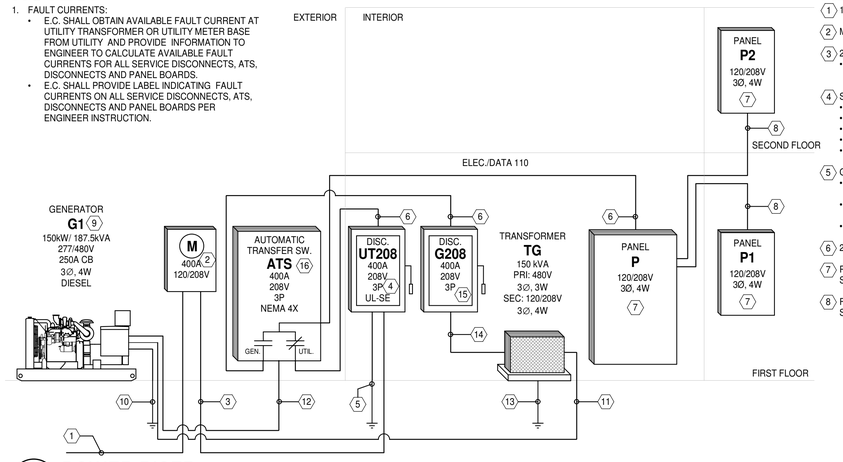
PROJECT# 24146

SHEET TITLE
ENLARGED POWER PLAN
ELEVATOR DETAIL

E102

NOTES:

1. FAULT CURRENTS:
   - E.C. SHALL OBTAIN AVAILABLE FAULT CURRENT AT UTILITY TRANSFORMER OR UTILITY METER BASE FROM UTILITY AND PROVIDE INFORMATION TO ENGINEER TO CALCULATE AVAILABLE FAULT CURRENTS FOR ALL SERVICE DISCONNECTS, ATS, DISCONNECTS AND PANEL BOARDS.
   - E.C. SHALL PROVIDE LABEL INDICATING FAULT CURRENTS ON ALL SERVICE DISCONNECTS, ATS, DISCONNECTS AND PANEL BOARDS PER ENGINEER INSTRUCTION.



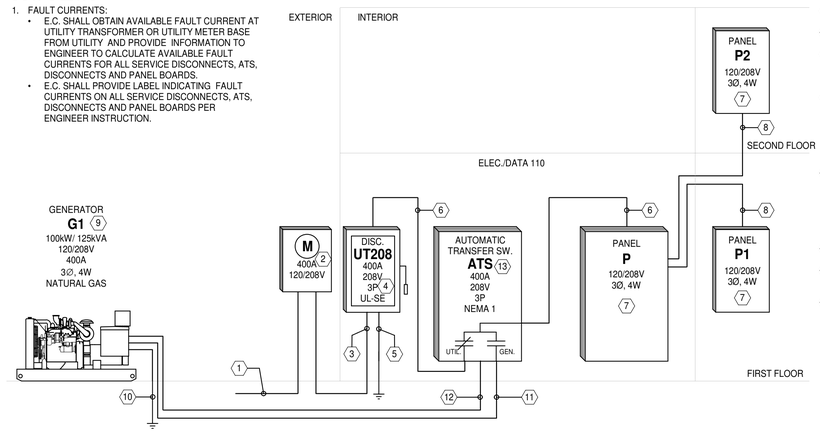
1 POWER RISER
NOT TO SCALE

KEY NOTES:

1. 120/208V 3Ø 4W UNDERGROUND SERVICE BY UTILITY
2. METER BASE BY E.C. PER UTILITY SPECS.
3. 2 SETS OF 4-#3/0 IN 2"C
   - RUN CONDUIT UNDER SLAB FROM METER BASE TO SERVICE DISCONNECT.
4. SERVICE DISCONNECT.
   - 400A, 240VAC, 3P NEMA 1 FUSIBLE DISCONNECT
   - UL LISTED FOR USE AS SERVICE EQUIPMENT.
   - PROVIDE 400A FUSES. MIN. AIC RATING OF 25KA
   - LABEL 'SERVICE DISCONNECT'
   - SEE NOTE #1.
5. GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
   - 1-#1/0G CU IN 3/4"C TO BUILDING STEEL, C.W. MAIN AND GAS PIPE.
   - 1-#4G CU IN 1/2"C TO REINFORCE STEEL AT CONCRETE FOOTING.
   - 1-#6G CU IN 1/2"C TO 2 DRIVEN RODS.
6. 2 SETS OF 4-#3/0, 1-#3G IN 2 1/2"C
7. PANEL BOARD. SEE NOTE #1. SEE PANEL SCHEDULE FOR DETAIL
8. FEEDER SEE PANEL SCHEDULE FOR DETAIL
9. BASE BID: STANDBY DIESEL GENERATOR
   - FURNISHED BY OWNER AND INSTALLED BY E.C.
   - PROVIDE 6" CONCRETE PAD. PAD SHALL EXTEND 6" FROM GENERATOR BASE ON ALL DIRECTION.
   - DO NOT BOND NEUTRAL TO GROUND BAR
   - E.C. SHALL CONTRACT AUTHORIZED DEALER TO PERFORM INSPECTION AND START UP.
   - PROVIDE SIGN PER NEC 702.
10. BASE BID: GENERATOR GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
    - 1-#2G CU IN 3/4"C TO GENERATOR CHASSIS.
    - 1-#4G CU IN 1/2"C TO REINFORCE STEEL AT CONCRETE FOOTING.
    - 1-#6G CU IN 1/2"C TO 2 DRIVEN RODS.
11. BASE BID: GENERATOR FEEDER:
    - 3-#250KCMIL, 1-#4G IN 2"C
12. GENERATOR CONTROL AND ANNUNCIATOR WIRING IN CONDUIT.
13. BASE BID: GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
    - 1-#1/0G CU TO BUILDING STEEL.
14. BASE BID: TRANSFORMER SECONDARY FEEDER
    - 2 SETS OF 4-#3/0, 1-#1/0G IN 2 1/2"C.
15. BASE BID: TRANSFORMER SECONDARY DISCONNECT.
    - 400A, 240VAC, 3P NEMA 1 FUSIBLE DISCONNECT.
    - PROVIDE WITH 400A FUSES.
    - SEE NOTE #1.
16. BASE BID: AUTOMATIC TRANSFER SWITCH
    - FURNISHED BY OWNER AND INSTALLED BY E.C.
    - ATS IS RATED FOR 400A, 480V. NEMA 4X
    - E.C. SHALL CONTRACT AUTHORIZED DEALER TO MODIFY FOR 208V TRANSFER OPERATION. MODIFICATION SHALL NOT VOID UL LABEL.
    - SEE NOTE #1.

NOTES:

1. FAULT CURRENTS:
   - E.C. SHALL OBTAIN AVAILABLE FAULT CURRENT AT UTILITY TRANSFORMER OR UTILITY METER BASE FROM UTILITY AND PROVIDE INFORMATION TO ENGINEER TO CALCULATE AVAILABLE FAULT CURRENTS FOR ALL SERVICE DISCONNECTS, ATS, DISCONNECTS AND PANEL BOARDS.
   - E.C. SHALL PROVIDE LABEL INDICATING FAULT CURRENTS ON ALL SERVICE DISCONNECTS, ATS, DISCONNECTS AND PANEL BOARDS PER ENGINEER INSTRUCTION.



2 POWER RISER - ALTERNATE
NOT TO SCALE

KEY NOTES:

1. 120/208V 3Ø 4W UNDERGROUND SERVICE BY UTILITY
2. METER BASE BY E.C. PER UTILITY SPECS.
3. 2 SETS OF 4-#3/0 IN 2"C
   - RUN CONDUIT UNDER SLAB FROM METER BASE TO SERVICE DISCONNECT.
4. SERVICE DISCONNECT.
   - 400A, 240VAC, 3P NEMA 1 FUSIBLE DISCONNECT
   - UL LISTED FOR USE AS SERVICE EQUIPMENT.
   - PROVIDE 400A FUSES. MIN. AIC RATING OF 25KA
   - LABEL 'SERVICE DISCONNECT'
   - SEE NOTE #1.
5. GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
   - 1-#1/0G CU IN 3/4"C TO BUILDING STEEL, C.W. MAIN AND GAS PIPE.
   - 1-#4G CU IN 1/2"C TO REINFORCE STEEL AT CONCRETE FOOTING.
   - 1-#6G CU IN 1/2"C TO 2 DRIVEN RODS.
6. 2 SETS OF 4-#3/0, 1-#3G IN 2 1/2"C
7. PANEL BOARD. SEE NOTE #1. SEE PANEL SCHEDULE FOR DETAIL
8. FEEDER SEE PANEL SCHEDULE FOR DETAIL
9. ALT. BID #1: STANDBY NATURAL GAS GENERATOR
   - 100KW/125KVA, 120/208V 3, 4W
   - 400A MAIN BREAKER WITH LSI ELECTRONIC TRIP.
   - NEMA 3R LEVEL 1 SOUND ATTENUATED ENCLOSURE.
   - PROVIDE EMERGENCY SHUTDOWN SWITCH AT THE EXTERIOR OF ENCLOSURE. LABEL 'GENERATOR EMERGENCY SHUTDOWN'
   - PROVIDE REMOTE ANNUNCIATOR LOCATED INSIDE BUILDING. SEE PLAN FOR LOCATION.
   - DO NOT BOND NEUTRAL TO GROUND BAR.
   - PROVIDE CONCRETE PAD AND BOLT GENERATOR TO PAD.
   - SEE SPECIFICATION.
   - PROVIDE SIGN PER NEC 702.
10. ALT. BID #1: GENERATOR GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
    - 1-#1/0G CU IN 3/4"C TO GENERATOR CHASSIS.
    - 1-#4G CU IN 1/2"C TO REINFORCE STEEL AT CONCRETE FOOTING.
    - 1-#6G CU IN 1/2"C TO 2 DRIVEN RODS.
11. ALT. BID #1: GENERATOR FEEDER:
    - 4-#500 KCMIL, 1-#3G IN 3 1/2"C
12. GENERATOR CONTROL AND ANNUNCIATOR WIRING IN CONDUIT.
13. ALT. BID #1: AUTOMATIC TRANSFER SWITCH:
    - 400A, 208VAC, 3P
    - MIN. AIC RATING OF 22KA.
    - OPEN TRANSITION.
    - NEMA 1 ENCLOSURE.
    - SEE SPECIFICATION.
    - SEE NOTE #1.

FEEDER AND BRANCH CIRCUIT WIRE SIZE AND CONDUIT TABLE

BREAKER AMPERE RATING	WIRE SIZE BASED UPON 75° RATING	GROUND WIRE	CONDUIT FOR 2W & G (L-N-G) (L-L-G)	CONDUIT FOR 3W & G (L-L-N-G) (L-L-L-G)	CONDUIT FOR 4W & G (L-L-L-N-G)
15	#12	#12	1/2"	1/2"	1/2"
20	#12	#12	1/2"	1/2"	1/2"
25	#10	#10	1/2"	1/2"	3/4"
30	#10	#10	1/2"	1/2"	3/4"
35	#8	#10	3/4"	3/4"	1"
40	#8	#10	3/4"	3/4"	1"
45	#8	#10	3/4"	3/4"	1"
50	#8	#10	3/4"	3/4"	1"
60	#6	#10	3/4"	1"	1"
70	#4	#8	1"	1-1/4"	1-1/4"
80	#4	#8	1"	1-1/4"	1-1/4"
90	#3	#8	1"	1-1/4"	1-1/4"
100	#3	#8	1"	1-1/4"	1-1/4"
110	#2	#6	1-1/4"	1-1/2"	1-1/2"
125	#1	#6	1-1/4"	1-1/2"	2"
150	#1/0	#6	1-1/2"	2"	2"
175	#2/0	#6	1-1/2"	2"	2"
200	#3/0	#6	2"	2"	2"

NOTES:

1. BREAKER: SHOWN SIZES ARE BASED ON STANDARD AMPERE RATINGS SHOWN IN NEC TABLE 240.6(A).
2. WIRE SIZES: SHOWN SIZES ARE FOR PHASE AND NEUTRAL WIRES. AMPACITY IS BASED ON THWN COPPER WIRES AT 75°C RATING AS SHOWN NEC TABLE 310.15(B)(16).
   - IF THERE ARE MORE THAN 1 SET OF FEEDER, ('X') PREFIX INIDCATES NUMBER OF FEEDER AND CONDUIT SETS.
3. GROUND WIRE: SHOWN SIZES ARE COPPER WIRES IN ACCORDING TO NEC TABLE 250.122.
   - IF THERE ARE MORE THAN 1 SET OF FEEDER, ('X') PREFIX INIDCATES NUMBER OF FEEDER AND CONDUIT SETS.
4. CONDUIT:
   - IF THERE ARE MORE THAN 1 SET OF FEEDER, ('X') PREFIX INIDCATES NUMBER OF FEEDER AND CONDUIT SETS.
   - CONDUIT SIZES ARE BASED ON THWN WIRES. FOR OTHER TYPE OF WIRES, IT IS E.C. RESPONSIBIITY TO ADJUST CONDUIT FILL IN COMPLIANCE WITH NEC.

3 FEEDER AND BRANCH CIRCUIT WIRE SIZE AND CONDUIT TABLE
NOT TO SCALE

PANEL P — **120/208, 3Ø, 4W**

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT	
1	PANEL P1 3W+G	100	3	5.8	0.4					1	20	FACP 104	2	(2)
3						6.3	0.4			1	20	BDA #1 104	4	(2)
5								8.5	0.0	1	20	BDA #2 104	6	(2)
7	PANEL P2 4W+G	100	3	6.9	1.0					1	15	UH-1 104	8	
9						8.1	1.1			1	20	REC EXTERIOR	10	
11								6.5	2.5	3	60	ELEV. MAIN 3W+G	12	
13	ODU-1 3W+G	50	3	3.6	2.5								14	
15						3.6	2.5						16	
17								3.6	0.6	1	20	ELEV. CAR LIGHTS	18	
19	ODU-3 3W+G	70	3	5.3	0.6					1	20	GEN. BATTERY CHARGER	20	
21						5.3	1.2			2	15	GEN. JACKET HEATER 2W+G	22	
23								5.3	1.2				24	
25	ODU-2 3W+G	50	3	3.6	0.0					1	20	LIGHTS 110	26	
27						3.6	1.0			1	20	LIGHTS EXTERIOR	28	
29								3.6	1.4	1	20	HOTBOX FIRELINE	30	
31	SPACE	--	1	--	0.5					1	20	HOTBOX DOMESTIC	32	(4)
33	SPACE	--	1			--	1.2			1	20	MOTORIZED GATE	34	
35	SPACE	--	1					--	1.2	1	20	MOTORIZED GATE	36	
37	SPACE	--	1	--	1.1					1	20	WH-1, RECIR. PUMP	38	
39	SPACE	--	1			--	0.4			2	15	FC-1.8 2W+G	40	
41	SPACE	--	1					--	0.4				42	
43	SPACE	--	1	--	0.0								44	
45	SPACE	--	1			--	0.0						46	
47	SPACE	--	1					--	0.2	1	20	REC. COND. PUMP 110	48	
49				1.2	0.0					1	20	SPARE	50	
51	SURGE PROTECTION	60	3			1.2	0.0			1	20	SPARE	52	
53								1.2	0.0	1	20	SPARE	54	
				TOTAL LOAD:		32.4 kVA		35.8 kVA		36.2 kVA				
				TOTAL AMPS:		270 A		303 A		306 A				

(1)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND
MOTOR/COOLING	53104 VA	107.46%	57067 VA
EQUIPMENT	16155 VA	100.00%	16155 VA
HEATING	960 VA	100.00%	960 VA
LIGHTING	8885 VA	125.00%	11106 VA
RECEPTACLE	22680 VA	72.05%	16340 VA
WATER HEATER	720 VA	100.00%	720 VA
KITCHEN EQUIP.	2460 VA	100.00%	2460 VA

NOTES:

TOTAL LOAD

CONNECTED LOAD:	104 kVA
DEMAND LOAD:	104 kVA
DEMAND	289 A

PANEL INFORMATION

LOCATION:	ELEC / DATA 110	BUS SIZE:	400 A
SUPPLY FROM:		MAIN TYPE:	MLO
MOUNTING:	SURFACE	AIC RATING:	22kA
ENCLOSURE	NEMA 1		
FEED-THRU:			
ISOLATED GND:			

KEY NOTES:

1. PROVIDE INTERNAL SURGE PROTECTION MODULE:
   - L-L, L-N, L-G AND N-G WITH MIN. RATING OF 120KA.
   - WITH SURGE COUNTER
   - 60A/3P BREAKER IS NOT REQUIRED IS A DISCONNECT IS FURNISHED WITH THE MODULE.
2. PROVIDE DEVICE TO LOCK BREAKER IN ON POSITION.
3. PROVIDE WITH GFCI BREAKER. DO NOT SHARE NEUTRAL.
4. PROVIDE WITH GROUND FAULT PROTECTION BREAKER FOR EQUIPMENT PER NEC 427.22. PROVIDE DEVICE TO LOCK BREAKER IN ON POSITION.

PANEL P1 — **120/208V, 3Ø, 4W**

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT	
1	LIGHTS STAIR	20	1	0.3	0.8					2	15	BB-1, FC-1.1, 1.2, 1.4 2W+G	2	
3	LIGHTS 107, 108	20	1			0.5	0.8						4	
5	LIGHTS 109, 111-116	20	1					0.9	0.6	2	15	FC-1.3, 1.5, 1.6, 1.7 2W+G	6	
7	LIGHTS 100-107, 117, 118	20	1	1.2	0.6								8	
9	REC 109	20	1			0.5	0.0			2	20	FC-2.11, 2.12 2W+G	10	
11	REC 111	20	1					0.2	0.0				12	
13	REC 112	20	1	0.2	0.0					1	15	COND. PUMP	14	
15	REC 108, 111, 112	20	1			1.1	0.5			1	15	EF-1.2	16	
17	REC 107	20	1					0.7	1.2	1	20	P-1 ELEV. PIT	18	
19	REC 106	20	1	0.7	0.4					1	20	REC ELEV. PIT	20	
21	REC 102, 105	20	1			0.7	0.7			1	20	REC 117	22	
23	REC 105	20	1					0.5	0.2	1	20	REC 117	24	
25	COPY 105	20	1	0.2	0.2					1	20	REC 117	26	
27	REC 114	20	1			0.5	0.2			1	20	REC 117	28	
29	REC 115	20	1					0.5	1.1	1	20	REFRIGERATOR 117	30	(3)
31	REFRIGERATOR - PASS THROUGH 116	20	1	0.2	0.6					1	20	GAS RANGE 117	32	(3)
33	REC 118	20	1			0.4	0.4			1	15	RANGE HOOD 117	34	
35	REC 100, 101	20	1					1.1	1.5	1	20	DISHWASHER 117	36	(3)
37	EWC 101	20	1	0.5	0.0					1	20	SPARE	38	
39	SPACE	--	1			--	--			1	--	SPACE	40	
41	SPACE	--	1	--	--			--	--	1	--	SPACE	42	
				TOTAL LOAD:		5.8 kVA		6.3 kVA		8.5 kVA				
				TOTAL AMPS:		48 A		54 A		72 A				

(3)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND
MOTOR/COOLING	4157 VA	107.07%	4451 VA
EQUIPMENT	1560 VA	100.00%	1560 VA
LIGHTING	3449 VA	125.00%	4312 VA
RECEPTACLE	9180 VA	100.00%	9180 VA
KITCHEN EQUIP.	2460 VA	100.00%	2460 VA

NOTES:

TOTAL LOAD

CONNECTED LOAD:	21 kVA
DEMAND LOAD:	22 kVA
DEMAND	60 A

PANEL INFORMATION

LOCATION:	WOMEN'S LOCKE...	BUS SIZE:	100 A
SUPPLY FROM:	P	MAIN TYPE:	MLO
MOUNTING:	FLUSH	AIC RATING:	22kA
ENCLOSURE	NEMA 1		
FEED-THRU:			
ISOLATED GND:			

PANEL P2 — **120/208V, 3Ø, 4W**

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT	
1	LIGHTS 202, 213-217	20	1	0.8	0.5					2	15	BB-2_FC 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8. 2.9 2W+G	2	
3	LIGHTS 200, 201, 203-207	20	1			1.5	0.5						4	
5	LIGHTS 208-212	20	1					1.0	0.8	2	15	FC 2.10, 2.11, 3.1 2W+G	6	
7	REC 200	20	1	0.9	0.8								8	
9	REC 201	20	1			0.7	1.4			1	20	TIME CLOCK, EF-1.1, 1.3, 2.1	10	
11	REC 203	20	1					0.7	0.4	1	20	REC ELEV. HOIST WAY TOP	12	
13	REC 204	20	1	0.7	0.2					1	20	LIGHTS ELEV. HOIST WAY TOP	14	
15	REC 205	20	1			0.9	0.1			1	30	UPS 214	16	
17	REC 206	20	1					0.7	0.4	1	20	REC 214	18	
19	REC 207	20	1	0.7	0.4					1	20	REC 214	20	
21	REC 202, 215	20	1			1.1	0.4			1	15	2-WAY COMMNUNICATION	22	(2)
23	REC 216	20	1					0.2	0.6	1	20	VRF CTRL.	24	
25	REFRIGERATOR 216	20	1	1.0	--					1	--	SPACE	26	(3)
27	REC 212	20	1			0.7	--			1	--	SPACE	28	
29	SUCURED DREYER 208	20	1					0.7	--	1	--	SPACE	30	
31	REC 208, 209	20	1	1.0	--					1	--	SPACE	32	
33	REC 210	20	1			1.1	--			1	--	SPACE	34	
35	REC 210	20	1					1.1	--	1	--	SPACE	36	
37	SPACE	--	1	--	--					1	--	SPACE	38	
39	SPACE	--	1			--	--			1	--	SPACE	40	
41	SPACE	--	1					--	--	1	--	SPACE	42	
				TOTAL LOAD:		6.9 kVA		8.1 kVA		6.5 kVA				
				TOTAL AMPS:		58 A		68 A		54 A				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND
MOTOR/COOLING	3776 VA	106.61%	4026 VA
EQUIPMENT	3000 VA	100.00%	3000 VA
LIGHTING	3527 VA	125.00%	4409 VA
RECEPTACLE	11520 VA	93.40%	10760 VA

NOTES:

TOTAL LOAD

CONNECTED LOAD:	22 kVA
DEMAND LOAD:	22 kVA
DEMAND	61 A

PANEL INFORMATION

LOCATION:	IT 214	BUS SIZE:	100 A
SUPPLY FROM:	P	MAIN TYPE:	MLO
MOUNTING:	SURFACE	AIC RATING:	10kA
ENCLOSURE	NEMA 1		
FEED-THRU:			
ISOLATED GND:			

4 PANEL SCHEDULES
NOT TO SCALE

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503 OBERLIN ROAD | SUITE 300
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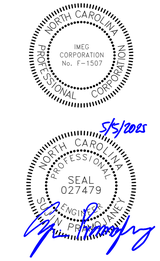
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PROJECT INFORMATION

POLICE HEADQUARTER BUILDING
TOWN OF ANGIER

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS



DKA JOB NUMBER
2418

REVISIONS

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SHEET TITLE
POWER RISER
PANEL SCHEDULES

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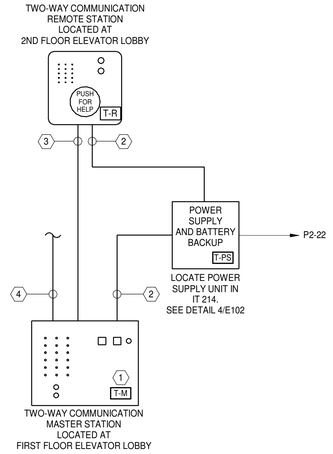
LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
A	2x2 CENTER ELEMENT LED FIXTURE RECESSED MOUNTED, CEILING GRID 3000/4000/5000 LUMEN	LITHONIA: STAKS-2X2-ALO3-SWW7	3000/4000/5000 LUMEN LED, 3500K/4000K/5000K 0-10V ELECTRONIC DIMMING DRIVER 26/34/40 WATTS - 28/37/44 VA, 120-277V	SET COLOR TO 3500K SEE NOTE ON PLAN FOR LUMEN SETTING
A/EM	2x2 CENTER ELEMENT LED FIXTURE RECESSED MOUNTED, CEILING GRID 3000/4000/5000 LUMEN WITH BATTERY BACKUP	LITHONIA: STAKS-2X2-ALO3-SWW7-ILB-CP10A	3000/4000/5000 LUMEN LED, 3500K/4000K/5000K 0-10V ELECTRONIC DIMMING DRIVER 26/34/40 WATTS - 28/37/44 VA, 120-277V	SET COLOR TO 3500K SEE NOTE ON PLAN FOR LUMEN SETTING
D	6" LED CAN LIGHT FIXTURE RECESSED MOUNTED, WHITE TRIM RING. 1000/11500/2000 LUMEN LIST FOR WET LOCATION.	LITHONIA: LDN6-ALO2-SWW1-LO6-AR-TRW-LD -MVOLT-UGZ	1000/1500/2000 LUMEN LED, 2000K/3500K/4000K/5000K 0-10V ELECTRONIC DIMMING DRIVER 12/19/25 WATTS - 13/21/28 VA, 120-277V	SET COLOR TO 3500K SET LUMEN TO 1500 LUMEN
D/EM	6" LED CAN LIGHT FIXTURE RECESSED MOUNTED, WHITE TRIM RING. 1000/11500/2000 LUMEN WITH BATTERY BACKUP	LITHONIA: LDN6-ALO2-SWW1-LO6-AR-TRW-LD -MVOLT-UGZ-EL	1000/1500/2000 LUMEN LED, 2000K/3500K/4000K/5000K 0-10V ELECTRONIC DIMMING DRIVER 12/19/25 WATTS - 13/21/28 VA, 120-277V	SET COLOR TO 3500K SET LUMEN TO 1500 LUMEN
F1	4 FT. 2" SLOT RECESSED LED FIXTURE RECESSED MOUNTED. 2400 LUMEN	MARK: SL2L-LOP-4FT-4FT-FLP-TG-80CRI-35K -600LMF-MIN10-120	2400 LUMEN LED, 3500K 0-10V ELECTRONIC DIMMING DRIVER 24 WATTS - 26 VA, 120-277V	
F1/EM	4 FT. 2" SLOT RECESSED LED FIXTURE RECESSED MOUNTED. 2400 LUMEN WITH BATTERY BACKUP	MARK: SL2L-LOP-4FT-4FT-FLP-TG-80CRI-35K -600LMF-MIN10-120-E10WLCP	2400 LUMEN LED, 3500K 0-10V ELECTRONIC DIMMING DRIVER 24 WATTS - 26 VA, 120-277V	
F2	4 FT. 2" SLOT RECESSED LED FIXTURE RECESSED MOUNTED. 3200 LUMEN	MARK: SL2L-LOP-4FT-4FT-FLP-TG-80CRI-35K -800LMF-MIN10-120	3200 LUMEN LED, 3500K 0-10V ELECTRONIC DIMMING DRIVER 32 WATTS - 35 VA, 120-277V	
F2/EM	4 FT. 2" SLOT RECESSED LED FIXTURE RECESSED MOUNTED. 3200 LUMEN WITH BATTERY BACKUP	MARK: SL2L-LOP-4FT-4FT-FLP-TG-80CRI-35K -800LMF-MIN10-120-E10WLCP	3200 LUMEN LED, 3500K 0-10V ELECTRONIC DIMMING DRIVER 32 WATTS - 35 VA, 120-277V	
G/EM	4 FT. LED STRIP LIGHT FIXTURE WALL MOUNTED 3000/4000/5000 LUMEN WITH BATTERY BACKUP	LITHONIA: CSS-L48-AL03-MVOLT-35K-80CRI -IE7WCP	3000/4000/5000 LUMEN LED, 3500K ELECTRONIC DIMMING DRIVER 28/36/43 WATTS - 31/40/48 VA, 120-277V	SET LUMEN TO 5000 LUMEN
K	24" X 24" LED RECESSED LIGHT FIXTURE RECESSED MOUNTED, HIGH ABUSE 4000 LUMEN	KENALL: RMCD-2-FL/TR-3-55C-37K8-DCC-DV-7-1	4000 LUMEN LED, 3700K ELECTRONIC DIMMING DRIVER 55 WATTS - 60 VA, 120-277V	
L	4 FT. VAPOR TIGHT FOR ELEVATOR PIT/SHAFT WALL MOUNTED 4000 LUMEN	LITHONIA: CSVT-L48-4000LM-MVOLT-40K-80CRI	4000 LUMEN LED, 4000K ELECTRONIC DRIVER 34 WATTS - 37 VA, 120-277V	
S/EM	4 FT. LED STRIP LIGHT FIXTURE SURFACE MOUNTED 3000/4000/5000 LUMEN WITH BATTERY BACKUP	LITHONIA: CSS-L48-AL03-MVOLT-35K-80CRI -IE7WCP	3000/4000/5000 LUMEN LED, 3500K ELECTRONIC DIMMING DRIVER 28/36/43 WATTS - 31/40/48 VA, 120-277V	SEE NOTE ON PLAN FOR LUMEN SETTING
S/M	4 FT. LED STRIP LIGHT FIXTURE SURFACE MOUNTED 3000/4000/5000 LUMEN WITH MOTION SENSOR	LITHONIA: CSS-L48-AL03-MVOLT-35K-80CRI -SFR7CSS	3000/4000/5000 LUMEN LED, 3500K ELECTRONIC DIMMING DRIVER 28/36/43 WATTS - 31/40/48 VA, 120-277V	SEE NOTE ON PLAN FOR LUMEN SETTING
TL	TAPE LIGHT 200 LUMEN PER FT. WITH METALLIC CHANNEL	LLI ARCHITECTURAL LIGHTING: LLI-L2.2W-20-35K-24V-90	200 LUMEN/FT. LED, 3500K 2.2 WATTS/FT, 24VDC	SEE PLAN FOR LENGTH PROVIDE 120 DIMMABLE POWER SUPPLY TO MATCH FIXTURES. PROVIDE ALUMINUM CHANNEL PER ARCHITECT INSTRUCTION.
Q	IN-GROUND LED FLOOD LIGHT FOR CONCRETE FLOOR, DOUBLE LENS NARROW FLOOD, 4000 LUMEN LISTED FOR WET LOCATION AND 0°F	HYDREL: M9720C-SS-LED-P3-40K-MVOLT-NFL -FLCSR-34B-LDIM-**	4000 LUMEN LED, 4000K 0-10V ELECTRONIC DIMMING DRIVER 46 WATTS - 49 VA, 120-277V	** FINISH COLOR PER ARCHITECT INSTRUCTION.
R	EXTERIOR CEILING MOUNTED FIXTURE SURFACE MOUNTED, WHITE FINISH 1500 LUMEN LISTED FOR WET LOCATION AND 0F	BRWONLEE: 7156-WH-C17-40K	1500 LUMEN, 4000K ELECTRONIC DIMMING DRIVER 16 WATTS - 18 VA, 120-277V	PROVIDE CAST ALUMINUM J-BOX TO MOUNT UNDER METAL CANOPY PER ARCHITECT INSTRUCTION.
W1	EXTERIOR WALL MOUNTED FIXTURE WITH UP AND DOWN LIGHT LISTED FOR WET LOCATION AND 0°F	LUMINIS: SY802-L2L20-WDU-WDD-40K-MVOLT-SWK -LSLU-LSLD-FS	4315 LUMEN (TOTAL), 4000K ELECTRONIC DIMMING DRIVER 43 WATTS - 46 VA, 120-277V	SEE ARCHITECTURAL PLAN FOR MOUNTING HEIGHT
W2	POLICE GLOBE WALL MOUNTED FIXTURE WALL MOUNTED LISTED FOR WET LOCATION AND 0°F	SENTRY ELECTRIC: SPRT-12-INC-MED-WH-POLICE-**	(1) 100W MEDIUM BASE 100 WATTS - 100 VA, 120	** FINISH COLOR PER ARCHITECT INSTRUCTION. SEE ARCHITECTURAL PLAN FOR MOUNTING HEIGHT. PROVIDE 4000K LED SCREW-IN LAMP TO MATCH LAMP BASE. MIN. OF 1000 LUMEN.
W3	EXTERIOR WALL MOUNTED CUT-OFF 1200 LUMEN LISTED FOR WET LOCATION AND 0°F	LITHONIA: WEDGE1-LED-P1-40K-80CRI-VW-MVOLT-**	1200 LUMEN, 4000K ELECTRONIC DIMMING DRIVER 10 WATTS - 11 VA, 120-277V	** FINISH COLOR PER ARCHITECT INSTRUCTION. SEE ARCHITECTURAL PLAN FOR MOUNTING HEIGHT
EX	EXIT LIGHT WITH BATTERY BACKUP 1 SIDE RED LETTER	LITHONIA: EXRG-EL-M6	LED FOR EXIT PANEL 1 WATTS - 11 VA, 120/277V	

NOTES:

1. SEE ARCHITECTURAL PLAN FOR MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL PLAN.
2. E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING. FINISH COLOR/TRIM SUBJECT TO BE CHANGED PER ARCHITECT.
3. LED COLOR:
   A. INTERIOR: 3500K UNLESS OTHERWISE NOTED.
   B. EXTERIOR: 4000K UNLESS OTHER WISE NOTED.
   C. FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING.

1 LIGHT FIXTURE SCHEDULE
NOT TO SCALE



TWO-WAY COMMUNICATION SYSTEM LEGEND

SYMBOL	DESCRIPTION	REMARK
T-R	TWO-WAY COMMUNICATION: MAIN STATION FLUSHED MOUNTED. MOUNT 60" FROM FLOOR TO CENTER OF BOX.	RATH: 2100-958NSR
T-M	TWO-WAY COMMUNICATION: REMOTE STATION FLUSHED MOUNTED. MOUNT 48" FROM FLOOR TO PUSH BUTTON.	RATH: 2500-205PSS
T-PS	TWO-WAY COMMUNICATION: LOW VOLTAGE POWER SUPPLY UNIT WITH BETTERY BACKUP	RATH: 2500-PWR24U

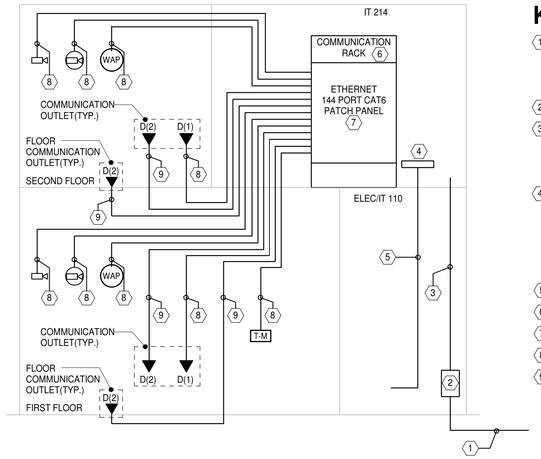
KEY NOTES:

1. TWO-WAY COMMUNICATION: MAIN STATION
   - UNIT SHALL PROVIDE 2 WAY COMMUNICATION BETWEEN REMOTE STATION AND MAIN STATION. UPON ACTIVATION OF THE EMERGENCY PUSH BUTTON AT THE REMOTE STATION , A CALL WILL BE AUTOMATICALLY PLACED TO THE MAIN STATION.
   - IF NO ONE ANSWERS AT THE BASE STATION, THE CALL BOX MUST DIAL A SECONDARY LOCATION OUTSIDE BUILDING TO ACTIVATE TWO-WAY OFF-SITE PERSON TO PERSON VOICE COMMUNICATION VIA LANDLINE, E.C. SHALL PROGRAM PHONE NUMBER PER OWNER INSTRUCTION.
   - OWNER PHONE SYSTEM IS VOIP. PROVIDE INTERFACE FOR VOIP TO MATCH OWNER PHONE AS REQUIRED.
2. LOW VOLTAGE POWER SUPPLY CABLE IN CONDUIT.
3. LOW VOLTAGE COMMUNICATION AND CONTROL CABLE IN CONDUIT.
4. CAT 6 CABLE FROM COMMUNICATION RACK IN IT 214.
   - SEE DETAIL 3/E201.
   - PROVIDE 3/4" TO FIRST FLOOR ACCESSIBLE CEILING SPACE FOR WIRING.

NOTES:

1. THE SYSTEM SHALL COMPLY WITH:
   a. THE AMERICANS WITH DISABILITIES ACT, SECTIONS 4.3.11.4 AND 4.3.11.5
   b. 2018 NC BUILDING CODE, SECTION 1009.8.1.
   c. UL LISTED FOR USE AS AN AREA OF RESCUE ASSISTANCE SYSTEM.
2. SIGNAGE:
   a. AT MAIN STATION, E.C. SHALL POST DIRECTIONS FOR THE USE OF THE TWO-WAY COMMUNICATION SYSTEM ADJACENT TO MAIN STATION IN COMPLIANCE WITH 2018 NC BUILDING CODE SECTION 1009.8.2.
   b. AT REMOTE STATION, E.C. SHALL POST:
      - DIRECTIONS FOR THE USE OF THE TWO-WAY COMMUNICATION SYSTEM ADJACENT TO REMOTE STATION IN COMPLIANCE WITH 2018 NC BUILDING CODE SECTION 1009.8.2.
      - INSTRUCTION HOW TO USE ARE OF REFUGE IN COMPLIANCE WITH 2018 NC BUILDING CODE SECTION 1009.11.
3. LOW VOLTAGE WIRING:
   a. WIRING SHALL BE CIRCUIT INTEGRITY TYPE CABLE (CI), LISTED FOR 2 HOUR RATING PER MANUFACTURER SPECIFICATIONS.
   b. WIRING SHALL BE IN CONDUIT.
4. TWO-WAY COMMUNICATION SYSTEM INSTALLATION SHALL BE BY A LICENSED CONTRACTOR.
5. SYSTEM WIRING SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY EIA AND NEC. WIRING SHALL MEET ALL ESTABLISHED STATE AND LOCAL ELECTRICAL CODES. ALL WIRING SHALL BE TESTED FOR FLEE FROM SHORTS AND GROUNDED AS SPECIFIED.
6. MASTER AND REMOTE STATION MOUNTING HEIGHT SHALL BE IN ACCORDANCE WITH ADA RECOMMENDATIONS AND SPECIFICATIONS.
7. DIAGRAM SHOWN IN THIS DETAIL IS BASED ON RATH COMMUNICATIONS SYSTEM AND SHOWN AS A GUIDELINE. ACTUAL SYSTEM AND WIRING SHALL BE PER MANUFACTURER INSTRUCTION.
8. ACCEPTABLE MANUFACTURER:
   a. RATH COMMUNICATIONS
   b. ALPHA COMMUNICATIONS
   c. CORNELL

2 ELEVATOR 2-WAY COMMUNICATION
NOT TO SCALE



NOTES:

1. DEMARC IS LOCATED IN IT 214 (2ND FLOOR)
2. EXPOSED WIRING WITH J-HOOK IS ALLOWED IN ACCESSIBLE CEILING SPACE.
3. FOR ALL COMMUNICATION DROPS:
   A. ALL CAT 6 DISTRIBUTION CABLES BETWEEN OUTLETS AND PATCH PANEL IN IT 214 RUN IN FIRST FLOOR ACCESSIBLE CEILING SPACE EXCEPT FOR 2ND FLOOR WIFI ACESSS POINTS AND SECURITY CAMERAS.
   B. FOR COMMUNICATION OUTLETS:
      a. FIRST FLOOR OUTLET: PROVIDE 1"C TO FIRST FLOOR ACCESSIBLE CEILING SPACE.
      b. SECOND FLOOR: PROVIDE 1"C TO FIRST FLOOR ACCESSIBLE CEILING SPACE.
   C. FOR WIFI ACCESS POINT:
      a. FIRST FLOOR: PROVIDE 3/4"C TO FIRST FLOOR ACCESSIBLE CEILING SPACE IF THE DEVICE IS LOCATED IN AREA THAT IS NOT ACCESSIBLE.
   E. FOR SECURITY CAMERA:
      a. FIRST FLOOR: PROVIDE 3/4"C TO FIRST FLOOR ACCESSIBLE CEILING SPACE IF THE DEVICE IS LOCATED IN AREA THAT IS NOT ACCESSIBLE.
      b. FIRST FLOOR EXTERIOR WALL: PROVIDE 3/4"C TO FIRST FLOOR ACCESSIBLE CEILING SPACE.
      c. SECOND FLOOR EXTERIOR WALL: PROVIDE 3/4"C TO SECOND FLOOR ACCESSIBLE CEILING SPACE.

3 COMMUNICATION DISTRIBUTION RISER DIAGRAM
NOT TO SCALE

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North Carolina Design Registration #F-1507

REF. SCALE IN INCHES 0 1 2 3
PROJECT# 24146

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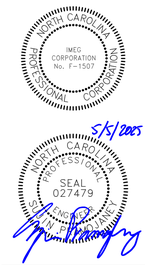
BOBBITT ATLANTEC ENGINEERS, PA from IMEG
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IMEG# 24146

PROJECT INFORMATION

POLICE HEADQUARTER BUILDING
TOWN OF ANGIER

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS



DKA JOB NUMBER
2418

REVISIONS

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PM: SP
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DATE ISSUED

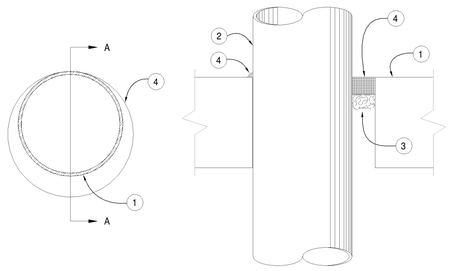
PERMIT DRAWINGS
05/02/25

SHEET TITLE
FIXTURE SCHEDULE
2-WAY COMM.
COMM. RISER

E201

SYSTEM NO. CAJ1044

F RATING - 2, 3 AND 4 HOUR (SEE ITEMS 2A AND 4)
T RATING - 0 HOUR
L RATING AT AMBIENT - 2 CFM/SQ. FT.
L RATING AT 400 F - LESS THAN 1 CFM/SQ. FT.
W RATING - CLASS 1 (SEE ITEM 4)



SECTION A - A

(1) **FLOOR OR WALL ASSEMBLY** – LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4-1/2". FLOOR MAY ALSO BE CONSTRUCTED OF ANY MINIMUM 6" THICK UL CLASSIFIED HOLLOW CORE **PRECAST CONCRETE UNITS***. WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS, PACKING MATERIAL (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF LOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED **CONCRETE BLOCKS***. MAXIMUM DIAMETER OF OPENING IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR IS 32" MAXIMUM DIAMETER OF OPENING IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS IS 7".

SEE **CONCRETE BLOCKS** (CAZT) AND **PRECAST CONCRETE UNITS** (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

(1A) **STEEL SLEEVE** – (OPTIONAL, NOT SHOWN) - NOM 16 IN. (406 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAXIMUM OF 2" ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. MAXIMUM 16" ID (OR SMALLER) MINIMUM 0.028" WALL THICKNESS (OR HEAVIER) GALVANIZED STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTENDA MAXIMUM OF 1/2" BEYOND THER SURFACE OF FLOOR OR WALL.

(2) **THROUGH PENETRANTS** – ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAXIMUM ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MINIMUM ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0" (POINT CONTACT). PIPE CONDUIT OR TUBINGTO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. **STEEL PIPE** – NOMINAL 30" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. **IRON PIPE** – NOMINAL 30" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C. **CONDUIT** – NOMINAL 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT.

D. **CONDUIT** – NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

E. **COPPER TUBING** – NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.

F. **COPPER PIPE** – NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

(3) **PACKING MATERIAL** – POLYETHYLENE BACKER ROD OR NOMINAL 1" THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

(3A) **FORMING MATERIAL*** – AS AN ALTERNATE TO THE PACKING MATERIAL IN ITEM 3, NOMINAL 4" WIDE STRIPS OF MINIMUM 1/2" THICK COMPRESSIBLE MAT TO BE STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE-FIRST, TO FILL THE ANNULAR SPACE TO A MINIMUM 4" DEPTH. AS AN OPTION, THE STRIPS OF MINIMUM 1/2" THICK COMPRESSIBLE MAT MAY BE FOLDED IN HALF, LENGTHWISE, AND STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE-FIRST, TO FILL THE ANNULAR SPACE TO A MINIMUM 2" DEPTH. TOP OF FORMING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS NECESSARY TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL.

3M COMPANY – FIRE BARRIER PACKING MATERIAL

(4) **FILL, VOID OR CAVITY MATERIAL* – CAULK, SEALANT** – APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE, A MINIMUM 1/4" DIAMETER BEAD OF CAULK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL. THE HOURLY F RATINGS AND THE MIN REQUIRED CAULK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

MINIMUM FLOOR OR WALL THICKNESS INCHES	NOMINAL PIPE TUBE OR CONDUIT DIAMETER INCHES	MAXIMUM ANNULAR SPACE INCHES	MINIMUM CAULK THICKNESS INCHES	F RATING
2 1/2	1/2 - 12	1 3/8	1/2	2
2 1/2	1/2 - 12	3 1/4	1	2
4 1/2	1/2 - 6	1 3/8	1/4(a)	2
4 1/2	1/2 - 12	1 1/4	1/2	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 12	3 1/4	1	3
4 1/2	22 - 30	2	2	3
5 1/2	1/2 - 6	1 3/8	1 (b)	4

a. MINIMUM 2" THICKNESS OF MINERAL WOOL BATT INSULATION OR FORMING MATERIAL (ITEM 3A) REQUIRED IN ANNULAR SPACE.

b. MINIMUM 1" THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
MINIMUM 1" THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

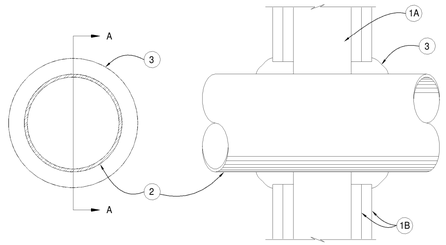
3M COMPANY – CP 25WB+ OR FB-3000 WT.
(NOTE: W RATING APPLIES ONLY WHEN FB-3000 WT IS USED.)

*BEARING THE UL CLASSIFICATION MARKING

1 FIRE PENETRATION (TYPICAL)
NOT TO SCALE

SYSTEM NO. WL1001

F RATINGS - 1, 2, 3 AND 4 HOUR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3 AND 4 HOUR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A - A

(1) **WALL ASSEMBLY** – THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. **STUDS** – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAXIMUM 2 HOUR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2" X 4" LUMBER SPACED 16" ON CENTER WITH NOMINAL 2" X 4" LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8" WIDE X 1 3/8" DEEP CHANNELS SPACED MAXIMUM 24" ON CENTER.

B. **GYPSUM BOARD*** – NOMINAL 1/2" OR 5/8" THICK, 4' WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 26".

(2) **THROUGH PENETRANT** – ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MINIMUM OF 0" (POINT CONTACT) TO MAXIMUM 2" PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. **STEEL PIPE** – NOMINAL 24" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. **IRON PIPE** – NOMINAL 24" DIAMETER (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOMINAL 12" DIAMETER (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.

C. **CONDUIT** – NOMINAL 6" DIAMETER (OR SMALLER) STEEL CONDUIT OR NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING

D. **COPPER TUBING** – NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING

E. **COPPER PIPE** – NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

F. **THROUGH PENETRATING PRODUCT* – FLEXIBLE METAL PIPING** – THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

1. NOMINAL 2" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
OMEGA FLEX INC

2. NOMINAL 1" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
TITEFLEX CORP
A BUNDY CO

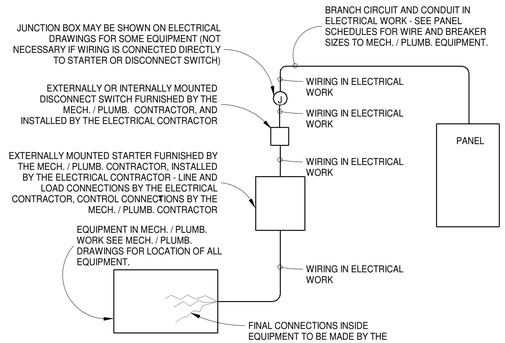
3. NOMINAL 1" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY
WARD MFG INC

(3) **FILL, VOID OR CAVITY MATERIAL* – CAULK OR SEALANT** – MINIMUM 5/8", 1-1/4",1-7/8" AND 2-1/2" THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAXIMUM PIPE OR CONDUIT DIAMETER INCHES	F RATING HOUR	T RATING HOUR
1	1 OR 2	O+, 1 OR 2
1	3 OR 4	3 OR 4
4	1 OR 2	0
4	3 OR 4	0
12	1 OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HOUR.
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.
*BEARING THE UL CLASSIFICATION MARKING

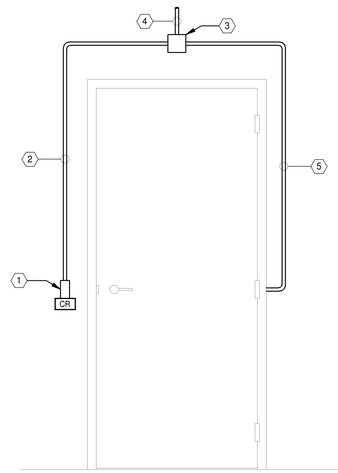
2 FIRE PENETRATION (TYPICAL)
NOT TO SCALE



NOTES:

1. A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND A STARTER.
2. E.C. SHALL FURNISH ALL REQUIRED FUSES.

3 WIRING TO MECH./PLUMB. EQ. DETAIL
NOT TO SCALE



KEY NOTES:

(1) SINGLE GANG BOX BY E.C. FOR CARD READER. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND SECURITY CONTRACTOR PRIOR TO ROUGH-IN. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.

(2) 3/4" CONDUIT BY E.C. FROM CARD READER SINGLE GANG BOX TO 4"X4" JUNCTION BOX ABOVE DOOR FRAME.

(3) 4"X4" JUNCTION BOX BY E.C. ABOVE DOOR FRAME. 3/4" CONDUIT BY E.C. FROM 4"X4" JUNCTION BOX ABOVE DOOR FRAME.

(4) FRAME STUBBED UP TO 6" ABOVE FINISHED CEILING. 3/4" CONDUIT BY E.C. FROM 4"X4" JUNCTION BOX ABOVE DOOR FRAME.

(5) FRAME TO HINGE AT DOOR FRAME. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND SECURITY CONSULTANT PRIOR TO ROUGH-IN.

NOTES:

1. THE ABOVE DETAIL IS FOR GUIDELINE AND PRICING. E.C. SHALL FIELD COORDINATE WITH SECURITY CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.

4 SECURED DOOR ROUGH-IN
NOT TO SCALE

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PROJECT INFORMATION

POLICE HEADQUARTER BUILDING
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027479 IMEG CORPORATION No. F-1507

5/5/2025

DKA JOB NUMBER
2418

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North Carolina Design Registration #F-1507

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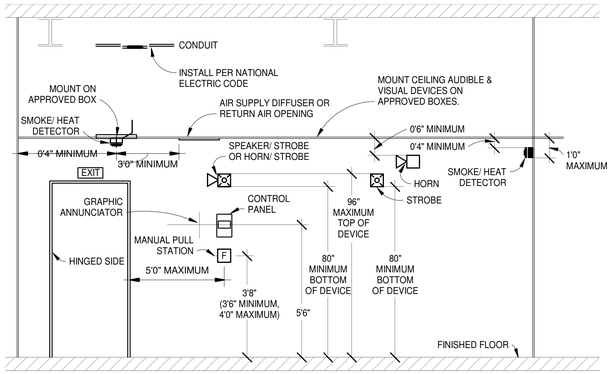
SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARK
	SMOKE DETECTOR, PHOTOELECTRIC ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
	HEAT DETECTOR, RATE OF RISE WITH FIXED TEMP. ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
F	FIRE ALARM PULL STATION. MOUNT 42" A.F.F. ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
'XX'	FIRE ALARM STROBE/HORN. MOUNT 80" A.F.F., 75 dBA SOUND LEVEL, 'XX' INDICATES CANDELA RATING 'WP' INDICATES WEATHERPROOF	FIRELITE, EST GAMEWELL, SIMPLEX
'XX'	FIRE ALARM CEILING STROBE/ HORN. 75 dBA SOUND LEVEL, 'XX' INDICATES CANDELA RATING	FIRELITE, EST GAMEWELL, SIMPLEX
'XX'	FIRE ALARM STROBE. MOUNT 80" A.F.F. 'XX' INDICATES CANDELA RATING.	FIRELITE, EST GAMEWELL, SIMPLEX
'XX'	FIRE ALARM CEILING STROBE. 'XX' INDICATES CANDELA RATING.	FIRELITE, EST GAMEWELL, SIMPLEX
FACP	FIRE ALARM CONTROL PANEL, SURFACE MOUNTED. ADDRESSABLE.	FIRELITE,EST GAMEWELL, SIMPLEX
FAA	FIRE ALARM REMOTE ANNUNCIATOR, FLUSH MOUNTED. ADDRESSABLE. MOUNT 42" A.F.F.	FIRELITE, EST GAMEWELL, SIMPLEX
FCELL	FIRE ALARM CELLULAR COMMUNICATOR WITH BATTERY BACKU 2 PATH COMMUNICATIONS: CELLULAR AND IP (INTERNET) SURFACE MOUNTED.	HONEYWELL: HWF2-**-COM OR EQUAL
BDA	BDA SYSTEM PROVIDE IF REQUIRED. SEE DETAIL 3/FA100	SEE SPECIFICATION
AOM	RELAY CONTROL MODULE ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
AIM	MONITOR MODULE ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
ISO	ISOLATOR MODULE ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
WF	FIRE SPRINKLER WATER FLOW SWITCH.	BY SPRINKLER CONTRACTOR.
VS	FIRE SPRINKLER VALVE SUPERVISORY SWITCH (TAMPER SWITCH).	BY SPRINKLER CONTRACTOR.
LT	LOW TEMP SENSOR. TEMP SETTING 40°F. NORMALLY OPEN ROOM TEMPERATURE.	POTTER: RTS-0
A.F.C.	ABOVE FINISHED CEILING	
A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	
B.F.F.	BELOW FINISHED FLOOR	
B.F.G.	ABOVE FINISHED CEILING	

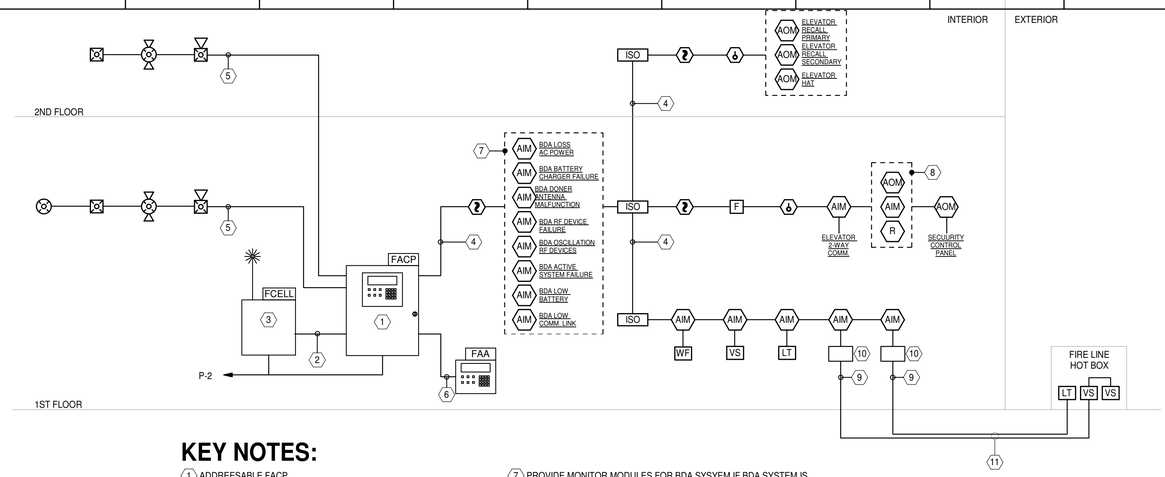
RATED ASSEMBLIES LEGEND

1-HR RATED FIRE BARRIER

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



2 FIRE ALARM DEVICE INSTALLATION DETAIL
NOT TO SCALE



KEY NOTES:

1. ADDREESABLE FACP. PROVIDE ADDITIONAL NAC PANEL AS REQUIRED.
2. COMMUNICATION CIRCUIT FOR CELLULAR COMMUNICATOR.
3. CELLULAR COMMUNICATOR.
   - E.C. SHALL FIELD VERIFY CELLULAR SIGNAL STRENGTH. PROVIDE REMOTE ANTENNA OUTISDE BUILDING AS REQUIRED FOR GOOD COMMUNICATION CONNECTION. FIELD VERIFY ANTENNA LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. ADDRESSABLE CIRCUIT.
5. NOTIFICATION APPLIANCE CIRCUITS
6. REMOTE ANNUNCIATOR CIRCUIT.
7. PROVIDE MONITOR MODULES FOR BDA SYSYEM IF BDA SYSTEM IS REQUIRED.
8. ELEVATOR SHUT DOWN REQUIREMENTS:
   - PROVIDE ADDRESSABLE RELAY TO ACTIVATE SHUNT TRIP OF ELEVATOR MAIN DISCONNECT. CONNECT TO P-2 FOR POWER CIRCUIT.
   - PROVIDE MONITOR MODULE AND END OF LINE RELAY TO MONITOR POWER CIRCUIT PER NFPA 72.
9. INITIATING CIRCUIT.
10. PROVIDE SURGE SUPPRESSION FOR INITIATING CIRCUIT AS REQUIRED.
11. WIRE IN 1" UNDERGROUND CONDUIT (MIN.). MIN. BURIAL DEPTH OF 24" B.F.G.

FIRE ALARM NOTES

1. SEE PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT.
2. CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENT PER 2018 FIRE CODE SECTION 907.1.1 AND 907.1.2 TO TO ENGINEER FOR APPROVAL PRIOR TO SUBMIT TO AND TESTING BY THE TOWN OF ANGIER FIRE MARSHAL'S OFFICE.
3. PLACARD THE ENTIRE FIRE ALARM SYSTEM. PROVIDE PANEL AND CIRCUIT NUMBERS ON A NAME PLATE AFFIXED TO THE FACE OF THE FIRE ALARM CONTROL PANEL.
4. CONTRACTOR SHALL PROVIDE ZONE MAPS COMPLETE WITH ADDRESSES FOR EACH FIRE ALARM DEVICE IN WOODEN FRAME ADJACENT TO THE NEW FIRE ALARM CONTROL PANEL.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS AND CUT SHEETS FOR FIRE ALARM SYSTEM TO ENGINEER FOR APPROVAL.
6. ALL WIRING SHALL BE SUPERVISED.
7. ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
8. ALL WIRING IN WALLS OR FURRED SPACES SHALL BE IN CONDUIT.
9. WHERE PERMITTED BY CODE, WIRING ABOVE ACCESSIBLE CEILINGS MAY BE RUN EXPOSED AND THE FOLLOWING REQUIREMENTS SHALL BE MET:
   A. WIRING SHALL BE PLENUM RATED WHERE APPLICABLE.
   B. PROVIDE BRIDLE RINGS FOR INDEPENDENT FIRE ALARM CABLE SUPPORT UNLESS SPECIFICALLY NOTED OTHERWISE. ANALOG LOOP WIRING INCOMING AND OUTGOING SHALL NOT BE SUPPORTED IN THE SAME BRIDLE RING.
10. ADDRESSABLE SLC CIRCUIT REQUIREMENTS:
    A. WIRING SHALL BE 'CLASS B'.
    B. MINIMUM CAPACITY OF ANALOG SENSORS PER LOOP SHALL BE 48.
    C. MINIMUM CAPACITY OF ADDRESSABLE MONITORING DEVICES PER LOOP SHALL BE 48.
    D. MINIMUM CAPACITY OF ADDRESSABLE CONTROL RELAY MODULES PER LOOP SHALL BE 48.
11. NOTIFICATION CIRCUIT REQUIREMENTS:
    A. WIRING SHALL BE 'CLASS B'.
    B. PROVIDE WITH 'SYNC MODULE' AS REQUIRED PER NFPA 72.
    C. FURNISH NOTIFICATION CIRCUITS AS REQUIRED TO ACCOMMODATE CIRCUIT LOADING. NO NOTIFICATION CIRCUIT SHALL BE LOADED TO MORE THAN 80% CAPACITY.
12. NOTIFICATION APPLIANCE RATINGS:
    A. PROVIDE SOUND (dB) AND CANDELA (Cd) RATINGS FOR ALL HORN/STROBE DEVICES PER NFPA 72. ALL VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72, 18.5.5.5.7 AND 18.5.3.6.
    B. A DECIBEL LEVEL OF (15 dB ABOVE AMBIENT ON NFPA 72, TABLE A.18.4.3) SHALL BE MAINTAINED IN ALL GENERAL AREAS AND 100 dB (15 dB ABOVE AN AMBIENT OF 85 dB IN NFPA 72, 18.4.3.1) SHALL BE MAINTAINED IN ALL MECHANICAL EQUIPMENT ROOMS PER NFPA 72 AND THE 2018 NORTH CAROLINA STATE BUILDING CODE (SECTION 907.6.2).
13. DIGITAL ALARM COMMUINCATOR:
    A. FIRE ALARM SYSTEM SHALL BE WITH DIGITAL ALARM COMMUNICATOR (DACT).
    B. DACT SHALL HAVE CAPABILITY TO HANDLE 2 PHONE LINES.
    C. WHERE SINGLE COMMUNICATION PATH WITH CELLULAR NETWORK IS ACCEPTABLE BY THE LOCAL FIRE MARSHAL, PROVIDE WITH THE COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE IN COMPLIANCE WITH NFPA 72 26.6.3.1.5.
    D. FIELD COORDINATE TYPE MATCH MONITORING COMPANY.
14. FOR SPRINKLER SYSTEM:
    A. FIELD COORDINATE QUANTITY AND LOCATION OF FLOW AND TAMPER SWITCHES WITH SPRINKLER'S FINAL DRAWINGS AND/OR CIVIL FINAL DRAWING FOR TAMPER SWITCH FOR PIV VALVE.
    B. PROVIDE MONITORING MODULES AS REQUIRED FOR SPRINKLER SYSTEM.
15. FOR ELEVATOR SYSTEM:
    A. PROVIDE ELEVATOR CAPTURE SIGNALS PER N.C. DEPARTMENT OF LABOR REQUIREMENTS.
    B. WHERE SPRINKLER HEADS ARE LOCATED IN ELEVATOR ROOM AND ELEVATOR PIT, PROVIDE ELEVATOR SHUNT TRIP ACTIVATION PER N.C. DEPARTMENT OF LABOR REQUIREMENTS. PROVIDE RELAYS AND MODULES AS REQUIRED TO OPERATE SHUNT TRIP BREAKER.
    C. NO OTHER DEVICES SHALL AFFECT ELEVATOR OPERATIONS.

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

	SYSTEM INPUTS	SYSTEM OUTPUTS: FACP ANNUNCIATION — ACTUATE COMMON ALARM SIGNAL INDICATOR (A)	ACTUATE AUDIBLE ALARM SIGNAL (B)	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR (C)	ACTUATE AUDIBLE SUPERVISORY SIGNAL (D)	ACTUATE COMMON TROUBLE SIGNAL INDICATOR (E)	ACTUATE AUDIBLE TROUBLE SIGNAL (F)	ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR (G)	ACTUATE GENERAL EVACUATION SIGNAL (H)	DISPLAY CHANGE OF STATUS (I)	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION (J)	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION (K)	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION (L) — NOTIFICATION — RECALL ELEVATOR TO RECALL FLOOR (M)	RECALL ELEVATOR TO ALTERNATE RECALL FLOOR (N)	RECALL ELEVATOR TO ELEVATOR CAB (O)	ACTUATE WARNING TO ELEVATOR CABS (P)	DELAYED REMOVAL OF POWER FROM ELEVATOR (Q)	UNLOCK EXITS AND CONTROL DOORS (R) — REQUIRED FIRE SAFETY CONTROL										
1	FIRE ALARM SYSTEM AC POWER FAILURE				●	●						●																1
2	FIRE ALARM SYSTEM LOW BATTERY				●	●						●																2
3	OPEN CIRCUIT				●	●						●																3
4	GROUND FAULT				●	●						●																4
5	NOTIFICATION APPLIANCE CIRCUIT SHORT				●	●						●																5
6	BUILDING MANUAL PULL STATIONS	●	●				●	●	●	●									●									6
7	AREA SMOKE DETECTORS	●	●				●	●	●	●				●					●									7
8	AREA HEAT DETECTORS	●	●				●	●	●	●				●					●									8
9	SPRINKLER TAMPER SWITCH			●	●		●				●																	9
10	SPRINKLER WATER FLOW IN BUILDING	●	●				●	●	●	●				●					●									10
11	SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT	●	●				●	●	●	●				●		●	●		●									11
12	ELEV EQUIP RM AREA SMOKE DETECTOR	●	●				●	●	●	●				●		●			●									12
13	ELEV SHAFT AND ELEV EQUIP RM HEAT DETECTORS	●	●				●	●	●	●				●		●	●		●									13
14	ELEV LOBBY SMOKE DETECTORS - UPPER FLOORS	●	●				●	●	●	●				●		●			●									14
15	ELEV LOBBY SMOKE DETECTOR - RECALL FLOOR	●	●				●	●	●	●					●	●			●									15
16	ELEV CONTROLLER POWER SHUNT TRIP STATUS			●	●		●				●																	16
17	AREA OF REFUGE TWO-WAY COMMUNICATIONS STATUS			●	●		●				●																	17
18	LOW TEMP: RISER ROOM			●	●		●				●																	18
19	LOW TEMP: FIRE LINE HOT BOX			●	●		●				●																	19

1 FIRE ALARM RISER DIAGRAM AND NOTES
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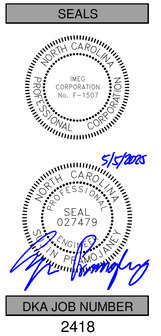
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IMEG# 24146

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TOWN OF ANGIER

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ANGIER, NC 27501

SEALS



DKA JOB NUMBER
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REVISIONS

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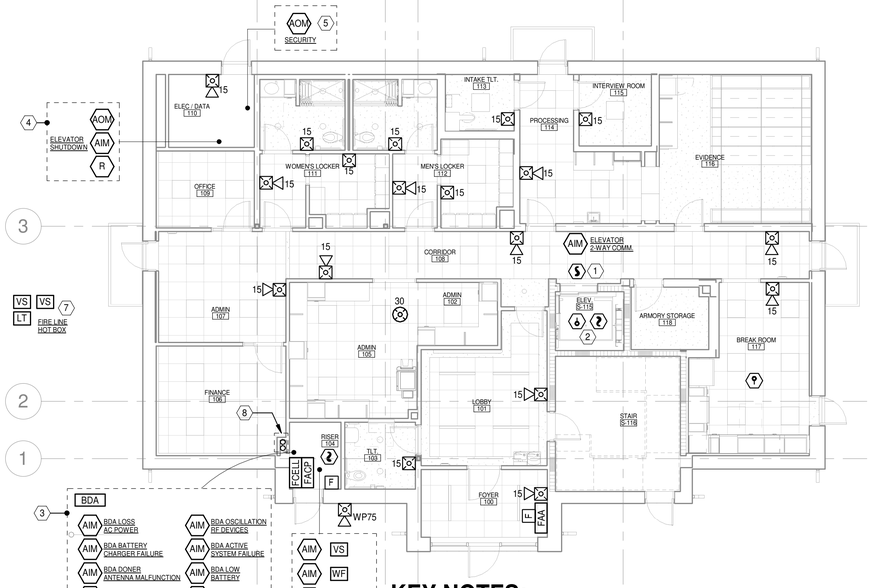
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SHEET TITLE
FIRE ALARM LEGEND RISER AND NOTES DETAIL

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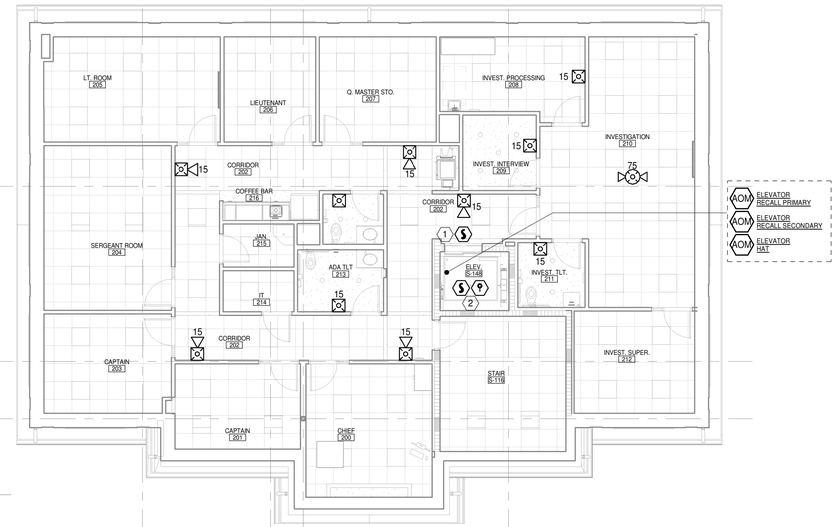


KEY NOTES:

1. SMOKE DETECTOR FOR ELEVATOR RECALL. INSTALLATION SHALL BE PER NFPA 72.
2. LOCATE SMOKE AND HEAT DETECTORS IN ELEVATOR PIT PER NFPA 72.
3. PROVIDE INSTALLATION IF BDA SYSTEM IS REQUIRED. SEE DETAIL 3/FA100.
4. PROVIDE ADDRESSABLE RELAY, MONITOR MODULE AND RELAY FOR ELEVATOR SHUTDOWN TO ACTIVATE SHUNT TRIP OF ELEVATOR MAIN DISCONNECT. SEE DETAIL 6/E102.
5. PROVIDE ADDRESSABLE RELAY MODULE TO DISABLE SECURITY LOCK AT SECURITY CONTROL PANEL. FINAL CONNECTION BY SECURITY CONTRACTOR.
6. PROVIDE INITIATING CIRCUITS IN UNDERGROUND CONDUIT TO HOT BOX PER KEY NOTE #7 SEE RISER DIAGRAM.
7. FIRE LINE HOT BOX. SEE SITE PLAN FOR HOT BOX LOCATION.
8. PROVIDE 2 - 2"C FROM NEAR BDA SYSTEM ANTENNA TO ATTIC SPACE THROUGH CHASE. ROUTE CONDUITS PER ARCHITECT INSTRUCTION.

1 FIRST FLOOR FIRE ALARM PLAN

1/8" = 1'-0"

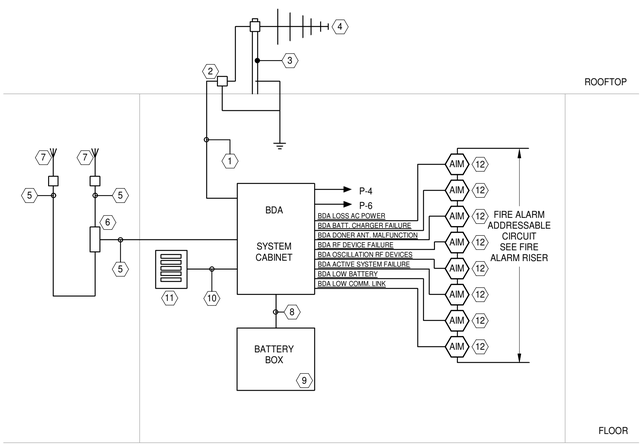


KEY NOTES:

1. SMOKE DETECTOR FOR ELEVATOR RECALL. INSTALLATION SHALL BE PER NFPA 72.
2. LOCATE SMOKE AND HEAT DETECTORS AT TOP OF ELEVATOR HOISTWAY FOR MACHINE SPACE PER NFPA 72.

2 SECOND FLOOR FIRE ALARM PLAN

1/8" = 1'-0"



KEY NOTES

1. DONOR ANTENNAS CABLE IN CONDUIT.
2. PROVIDE LIGHTNING ARRESTOR, GROUNDED AS REQUIRED.
3. DONOR ANTENNA MAST. TO BE BONDED TO BUILDING STEEL.
4. DONOR ANTENNA.
5. DISTRIBUTED ANTENNA SYSTEM (DAS) CABLE IN CONDUIT AS REQUIRED PER CODE.
6. PROVIDE SIGNAL SPLITTER AS REQUIRED.
7. PROVIDE DAS ANTENNA(S) AS REQUIRED FOR COVERAGE. FIELD VERIFY LOCATION AND INSTALLATION OUTSIDE FIRE RISER ROOM WITH ARCHITECT PRIOR TO ROUGH-IN.
8. BATTERY CABLE IN CONDUIT.
9. BATTERY BOX: 24 VDC
10. REMOTE ANNUNCIATOR CIRCUIT IN CONDUIT.
11. REMOTE ANNUNCIATOR. LOCATE ADJACENT TO FACP IN FIRE RISER ROOM.
12. FIRE ALARM DEVICE AND WIRING. SEE FIRE ALARM RISER DIAGRAM

NOTES

1. CONTRACTOR SHALL PROVIDE PRICES FOR BI-DIRECTIONAL ANTENNA SYSTEM (BDA) AS FOLLOWS:
   - A. SYSTEM REQUIREMENT EVALUATION:
     - a. ALL SURVEY AND EVALUATION SHALL BE DONE BY A REGISTERED DESIGN PROFESSIONAL (FCC LICENSED) PER 2018 NC FIRE CODE SECTION 510.
     - b. PROVIDE RF SURVEY AND MAP THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH (OUTSIDE) AT THE PROPERTY (RAW SURVEY) WHEN THE BUILDING IS TOTALLY ENCLOSED WITH NO OPENING.
     - c. THE DESIGN PROFESSIONAL SHALL REVIEW THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH OUTSIDE (ER-RSS OUTSIDE) SURVEY AND BUILDING CONSTRUCTION PLANS TO DETERMINE THAT THE MINIMAL EMERGENCY RESPONDER RADIO SIGNAL STRENGTH INSIDE (ER-RSS INSIDE) WILL LIKELY BE AVAILABLE IN THE PROPOSED BUILDING.
     - d. WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A BDA OR RCS SYSTEM WILL NOT BE REQUIRED, SUBMIT EVALUATION TO THE TOWN OF ANGIER FIRE MARSHALL OFFICE FOR APPROVAL. ONE HARD COPY AND ONE PDF COPY ARE REQUIRED. DO NOT INSTALL THE BDA SYSTEM PER PLAN.
     - e. WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A BDA OR RCS SYSTEM WILL BE REQUIRED, SEE SYSTEM INSTALLATION.
   - B. SYSTEM INSTALLATION:
     - a. ALL DESIGN AND TEST SHALL BE DONE BY A REGISTERED DESIGN PROFESSIONAL (FCC LICENSED) PER 2018 NC FIRE CODE SECTION 510.
     - b. FURNISH SHOP DRAWINGS INCLUDING THE RADIO WAVE PROPAGATION PLAN TO THE TOWN OF ANGIER FIRE MARSHAL OFFICE FOR APPROVAL. ONE HARD COPY OF TEST AND DESIGN SHALL BE SUBMITTED. ADDITIONAL TEST AND DESIGN COPY SHALL BE SUBMITTED IN A PDF FORMAT WITH ALL EQUIPMENT CUT SHEETS.
     - c. PROVIDE INSTALLATION PLAN.
     - d. PRIOR TO FINAL INSPECTION, AN ER-RSS INSIDE SURVEY SHALL BE PERFORMED AND MAPPED. THIS SHALL BE SUBMITTED TO THE ENGINEER AND THE TOWN OF ANGIER FIRE MARSHALL OFFICE.
2. SHOWN DIAGRAM IS A GUIDE LINE. IF THE INSTALLATION IS REQUIRED UPON SURVEY CONTRACTOR SHALL PROVIDE INSTALLATION PER SPECIFICATIONS AND MANUFACTURER INSTRUCTION.
3. INSTALLATION SHALL COMPLY WITH 2018 NC FIRE CODE, 2013 NFPA 72, AND 2019 NFPA 1221.
4. CONTRACTOR SHALL EVALUATE THE INTERFERENCE FROM EXISTING BDA SYSTEM INSTALLED AT NEARBY BUILDING AND DESIGN SYSTEM ACCORDINGLY.

3 BI-DRIECTIONAL ANTENNA SYSTEM DIAGRAM

NOT TO SCALE

IMEG
www.imegcorp.com
3221 BLUE RIDGE ROAD
SUITE 113
RALEIGH, NC 27612
P: 919.571.1111

North Carolina Design Registration #F-1507

REF. SCALE IN INCHES 0 1 2 3

PROJECT# 24146

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
RALEIGH, NC 27605
919.833.3737
www.daviskane.com

BOBBITT
ATLANTEC ENGINEERS, PA
from IMEG
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
(919) 571-1111
IMEG# 24146

PROJECT INFORMATION

POLICE HEADQUARTER BUILDING

TOWN OF ANGIER

29 W. MCIVER STREET
ANGIER, NC 27501

SEALS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL IMEG CORPORATION No. F-1507

5/5/2025
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027479 ELECTRICAL

DKA JOB NUMBER

2418

REVISIONS

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PA:
PM: SP
Drawn By: SP
Plot Date: 5/5/2025 11:54:33 AM

DATE ISSUED

PERMIT DRAWINGS
05/02/25

SHEET TITLE

FIRE ALARM PLAN
BDA SYSTEM
DIAGRAM

FA100